



2017 Annual Report

JIS Landfill Site
South Brunswick, New Jersey

JIS Landfill Site Performing Parties Group

GHD | 651 Colby Drive Waterloo Ontario N2V 1C2 Canada
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1. Introduction

On behalf of the JIS Landfill Site Performing Parties Group (JIS Group), GHD (formerly known as Conestoga-Rovers & Associates) is submitting this annual progress report for the period January 2017 through December 2017 for the JIS Landfill Site (Site). The last annual progress report was submitted in February 2017 that covered January 2016 through December 2016. This annual report includes all sampling and monitoring activities completed since the last report, including those associated with the vapor intrusion assessments as well as all other components that were previously reported.

Remedial Design/Remedial Action activities at the JIS Site were conducted pursuant to Administrative Consent Orders (ACO) entered into in 1997 and in 2004 by the JIS Group and the NJDEP. The work associated with these ACOs is now complete.

An Administrative Order (AO) covering future work to be performed at the JIS Site was issued by the USEPA to the JIS Group on September 3, 2010. This AO includes implementation/monitoring of the biosparge system and other remedial components for the Site as described in the Record of Decision (ROD), ROD Amendment, and the approved Remedial Action Work Plan. This annual progress report is being prepared pursuant to Section 13.0 of the Remedial Action Work Plan.

1.1 Site Changes

In 2014, the JIS Group filed suit against JIS Co. and its principals to enforce a judicially approved settlement agreement requiring JIS Co. to transfer ownership of the JIS property to the JIS Group's designee, *de maximis, inc.* In 2016, the Court ordered that title in the property be transferred to *de maximis, inc.* Title to the property is now in *de maximis'* name, and JIS Co. is no longer in possession of the property. The trial court's judgment requiring that the property be transferred to *de maximis, inc.* was recently affirmed by the Appellate Division of the Superior Court of New Jersey on February 1, 2018.

On June 12, 2017, the JIS Group recorded a revised Deed Notice with the Clerk's Office which restricts development of the entire Site, rather than just the western landfill portion of the Site.

1.2 Groundwater Monitoring Program Changes

In addition to the frequency of monitoring the various wells that was approved in 2015, some further changes to the groundwater monitoring program for the JIS Site are pending. These include the following:

- Three well nests in the off-Site downgradient portion of the plume are scheduled for possible relocation. Wells MW-22, MW-23, and MW-34, which are located on property located east of the JIS Site, will be reviewed for possible closure, replacement, or re-location if the property owner's development plans pose a conflict with the current locations of these wells. The wells impacted by the development will be decommissioned in accordance with NJDEP regulations and the replacement or relocation of these wells will be performed after the development implementation.



- The JIS Group is aware of a plan to develop another property located to the east of the JIS Site, immediately east of Cranbury South River Road in Monroe Township. The property is currently owned by the Protinick Trust, but a developer has obtained site plan approval from the Township for the development of a warehouse that will be built in an area where some groundwater monitoring wells are currently located. The JIS Group has been in communication with USEPA regarding the potential closure, replacement, or re-location of some of these wells, as may become necessary if the development proceeds to construction.
- In addition, the JIS Group is aware of plans that have been submitted by the owner of the property directly across the street from the JIS property for a use variance to build a strip mall on the property. Some monitoring wells exist on this property but we have not received any site plans which show the potential impact of the development on the existing wells.

2. Routine Activities Performed in the Reporting Period

2.1 Biosparge Groundwater Monitoring Program

Overview

The biosparge groundwater monitoring program consists of the collection and analysis of groundwater samples from forty-five monitoring wells (MW-42 through MW-55 and MP-6) that were installed along the alignment of the biosparge system. The wells are grouped into fifteen well nests with each well nest including a shallow, intermediate, and deep screened interval. The wells in the core of the JIS plume (located between wells MW-53 and MP-6) are now sampled semi-annually (USEPA approved semi-annual monitoring on October 30, 2014), whereas the remainder of the wells in the biosparge monitoring network are sampled annually. The samples from the wells that are on the annual cycle are collected in March/April of each year to coincide with the timing of the biennial sampling of the downgradient plume that is used for the Classification Exception Area certification. The most recent biosparge sampling events were conducted on the following dates:

- October 10 – 13, 2016
- March 21 – April 3, 2017
- October 3 - 6, 2017

All of the wells in the biosparge monitoring program are sampled for VOCs (including 1,4-dichlorobenzene and 1,2,4-trichlorobenzene), arsenic, and manganese.

A groundwater sample is also collected from well MW-5 as part of the biosparge monitoring program. This well is located immediately downgradient of the landfill and upgradient of the biosparge system, and provides an indication of the groundwater quality emanating from the landfill. Samples from the sentry wells (MW-68, MW-69, and MW-70) installed in 2015 and the converted pumping wells (PW-1 and PW-2) were also collected in 2017.



The biosparge monitoring program focuses on tracking the dissolved oxygen and VOC concentrations in the groundwater. The most prominent VOCs are:

- Benzene
- Chlorobenzene
- 1,4-dichlorobenzene
- Xylenes (total)
- 1,2,4-trichlorobenzene

Manganese is also a primary compound of concern although it is a naturally occurring compound and is not a compound that poses a health-related risk. Plots of the chemical concentration trends for these compounds are presented in Figures 1 through 7. The results of the dissolved oxygen monitoring are presented in Figure 8.

The analytical results from the biosparge monitoring program for this reporting period are presented in Table 1. The 2017 data are mostly consistent with results from previous years and are summarized as follows:

Groundwater Flow

Groundwater at the JIS Landfill flows easterly. The primary contaminant plume is limited to a relatively narrow band emanating in the area of MW- 5 and moving downgradient between on-Site wells MW-53 and MP-6 (as shown in Figure 9). The installation of the sentry wells (MW-68, MW-69, and MW-70) has further refined the lateral extent of the core of the plume as passing through the shallow and intermediate zones of the aquifer at wells MW-69 and MW-70 on a path between MW-5 and MP-6. The biosparge injection system is located immediately downgradient of MW-53 and MP-6 and provides treatment of the groundwater prior to and beyond the downgradient property boundary. This system has been successful in treating and mitigating contaminant migration beyond the eastern property boundary.

VOC Trends

A study of the factors that may be contributing to the variation of the benzene concentrations observed at MW-5, which is located closest to the landfill in the primary core area, was conducted in 2017. The study included an electrical resistivity survey and groundwater/precipitation comparisons, as well as the collection of additional samples (total five) at MW-5. In the samples, total VOCs were detected at concentrations ranging between 2,300 and 27,000 parts per billion (ppb). The 27,000 ppb concentration was detected in the July sample, and of the total VOC concentration, 24,000 ppb was due to the presence of benzene. The remaining VOC concentrations were primarily made up of chlorobenzene (1,100 ppb) and xylenes (1,600 ppb). With the exception of the 27,000 ppb measured in July, the four remaining samples collected in 2017 had a maximum total VOC concentration of 6,100 ppb, which is consistent with the range of concentrations measured at MW-5 in 2016 (between 1,900 and 4,700 ppb).

Monitoring wells MW-69 S and MP-6 S, which are located approximately 200 and 300 feet downgradient of MW-5, respectively, effectively reflect conditions along the primary plume axis downgradient of MW-5 and upgradient of the treatment zone created by the biosparge injection



system. Total VOC concentrations at MW-69 S and MP-6 S exhibit significant reductions when compared to MW-5. The total VOC concentrations ranged from 258 to 641 ppb at MW-69 S, and from 178 to 278 ppb at MP-6 S in 2017.

Monitoring well MW-50 is the next downgradient well along the plume axis. It is located approximately 100 feet downgradient from the biosparge injection system. Total VOC concentrations at MW-50 were detected at significantly reduced concentrations compared to on-Site wells. The highest total VOC concentration was detected at 28 ppb in the deep zone at this well nest during the 2017 sampling events. No individual VOC exceeded New Jersey Groundwater Quality Standards (NJGWQSs) with the exception of TCE in the October 2017 sample that was detected at a concentration of 1.4 ppb (compared to the Groundwater Criteria of 1 ppb in MW-50 D).

MW-49 was the only other well with an exceedance of a NJGWQS in the group of wells located 100 feet downgradient of the biosparge system. Benzene was detected at 1.2 ppb (compared to a criteria of 1 ppb) in the shallow well at MW-49. These data demonstrate that the biosparge system is successfully supplementing the natural degradation processes to effectively remediate the JIS plume on or near the JIS property.

The groundwater samples that were collected from the sentry wells (MW-68, MW-69, and MW-70) demonstrate that the overall total VOC concentrations approaching the biosparge system are currently decreasing. For example, the total VOC concentration at MW-69 S was 8,500 ppb in May 2015 and decreased to 670 ppb in October 2016 and to 257 ppb in October 2017. Similarly, the total VOC concentration at MW-70 I decreased from 1,700 ppb in May 2015 to 141 ppb in October 2016 and to 95 ppb in October 2017.

While TCE has been observed in a few of the biosparge monitoring wells over the past 10 years, the concentration of TCE in the on-Site monitoring wells has historically never exceeded 5 ppb; however, in October 2015, TCE was present in three wells at concentrations that exceeded 5 ppb. The observed concentrations in October 2015 were:

MW-5	43 ppb
MP-6 D	160 ppb
MW-69 I	210 ppb

In the 2016 Annual Report, the JIS Group noted that it would continue to monitor these conditions in 2017 to better understand potential TCE trends. The sampling performed in 2017 has shown that the TCE detected in 2015/2016 was the result of a temporal spike. In October 2015, the highest concentration of TCE (219 ppb) was observed at one of the sentry wells (MW-69 I). During the next sampling event in April 2016, the highest observed concentration of TCE was 370 ppb, but was located further downgradient, immediately adjacent to the biosparge system at well MP-6 I. During the October 2016 sampling event, the highest concentration of TCE observed was also at MP-6; however, the concentration had decreased to 190 ppb. By 2017, the TCE concentrations had further decreased with the highest TCE concentration now being 9 ppb at well MP-6D. A summary of the data from the key wells showing the TCE concentration trend is as follows:



Well	March 2015	October 2015	April 2015	October 2016	October 2017
MW-5	ND	43	2	0.3	ND
MW-69 I	60	219	49	2.7	3.1
MP-6 I	0.3	3.3	370	150	4

Similar to past observations for benzene, the TCE levels noted in 2015 appear to be the result of a temporal spike in the plume core, which was observed to migrate and attenuate along the downgradient plume axis in 2016 and 2017. The highest TCE concentration detected in the monitoring well network located 100 feet downgradient of the system was only 2.2 ppb (at well MW-49 I) in 2017.

Dissolved Oxygen Trends

The dissolved oxygen concentrations in the biosparge monitoring wells are presented in Figure 8 and on Table 2. The series of 120 injection wells that are used to deliver the compressed air into the aquifer from the compressor/control building are also shown on Figure 8. The dissolved oxygen concentrations measured in the most recent 2017 sampling event from the forty-five groundwater monitoring wells that make up the biosparge monitoring well network fall into the following categories:

< 0.2 ppm	(oxygen deficient)	1 wells	(5)
> 0.2 ppm but < 2 ppm	(may be limiting the biodegradation)	2 wells	(4)
> 2 ppm but < 5 ppm	(adequate to support biodegradation)	5 wells	(2)
> 5 ppm	(ideal for biodegradation)	36 wells	(33)

Note- one well (MW-42 S) is blocked and therefore is not included in the 2017 count.

For comparison, the number of wells in each category in 2016 is presented in parentheses. As can be seen from these data, the oxygen levels in the wells are slightly higher than they were in 2016 and similar to the way they were in 2015. The measured levels show that there are sufficient dissolved oxygen levels in most of the wells and that the injection system is operating as designed, with the exception of MP-6 I-R, which was below 0.2 ppm of oxygen. Therefore, given the results, no well rehabilitation is recommended or planned for 2017.

The oxygen levels in the new sentry wells (MW-68, MW-69, and MW-70) were also higher in 2017 than in 2016. In 2017, all three of the sentry wells at location MW-68 had oxygen levels above 2 ppm, compared to 2016, when only one well (MW-70 I) had a detected oxygen reading. Similar to 2016, MW-70 I also had oxygen present (1.56 ppm).

Maintenance

The maintenance that was performed on the biosparge system in 2017 was the routine maintenance of the compressor and injection system.

Recommendations for 2018 operations include continued monitoring of the oxygen distribution pattern to maintain the oxygen levels along the injection boundary. Appropriate maintenance or adjustments to the injection pattern will be made as needed to optimize the distribution of oxygen.



2.2 Biennial Groundwater Monitoring Program

The biennial groundwater monitoring event was conducted in March 2017 to provide the information necessary to complete the recertification of the Classification Exception Area. The Classification Exception Area Report was submitted to the NJDEP in June 2017. The 2017 groundwater data were very similar to the 2015 data with very little change to the alignment of the properties now included in the 2017 Classification Exception Area. A plot of the areas where exceedances of the NJGWQS exist based on the most recent available sampling event for each well location is presented in Figure 9. Figures 10 through 12 provide similar plots of the exceedances of the NJGWQS for the most recently collected samples for the shallow, intermediate, and deep zones of the aquifer, respectively.

2.3 Soil Vapor Intrusion Assessment

In accordance with the USEPA approved "Vapor Intrusion Sampling Plan" (CRA - August 2011), an annual assessment of the potential for soil vapor intrusion is performed at and around the JIS Landfill. The annual assessment uses the shallow groundwater data from monitoring wells included in the following groundwater monitoring programs to complete the assessment:

- The biennial groundwater monitoring program that covers the entire JIS plume downgradient of the Site. The most recent sampling for this component of the assessment was performed in March 2017.
- The groundwater monitoring that is performed to assess the effectiveness of the biosparging injection system. The most recent sampling for this component of the assessment was performed in October 2017.

The data from these shallow wells are compared to the New Jersey Groundwater Screening Levels (NJGWSLs) to determine whether there are any exceedances, and if so, what buildings are in the vicinity of the exceedances that would warrant further consideration for assessment or investigation. The results of that comparison are presented in Table 3. The assessment takes into consideration land use changes that occur from time to time that may have a bearing on where specific investigations become necessary.

Based upon the results of the 2016 sampling programs, the proposed 2017 assessment included follow up investigation at the following buildings:

- Sampling of the indoor and outdoor air within and near the JIS building.
- Sampling of the sub-slab conditions at the residence/auto body shop located at the intersection of Cranbury South River Road and Docks Corner Road; however, access was not, and has not been granted to this facility.

2.3.1 2017 Shallow Groundwater Sampling

The groundwater samples and results from the shallow groundwater monitoring wells included in the 2017 biosparging monitoring event are shown on Figure 13 along with the most recent sampling results from the remainder of the wells in the groundwater monitoring program. The shallow sampling results are used to identify and assess off-Site area(s) of potential vapor intrusion (VI)



concern. As can be seen on the figure, none of the off-Site shallow well sampling results in 2017 exceeded the NJGWSLs.

2.3.2 Vadose Zone Well Sampling

In accordance with the Remedial Action Work Plan, the vadose zone wells that were installed to monitor the soil gas quality around the biosparge injection system continue to be sampled semi-annually. The sampling program involves the use of hand held equipment to monitor soil gas concentrations in seven on-Site vadose zone monitoring wells, as shown on Figure 14.

The results of the vadose zone screening of the biosparge monitoring wells performed in 2017 are presented in Table 4, and are consistent with the previous years' data. As shown in Table 4, no detectable concentrations of VOCs were observed (i.e., 0.0 ppm) in any of the photoionization screenings. Consistent with the Remedial Action Work Plan, since the vapor readings in the wells were at or near background levels in the initial screening, no vadose samples were collected in 2017 as a part of the semi-annual sampling program.

Due to the pending developments proposed for the properties to the east of the Site, it was decided to collect a complete round of vadose zone samples in 2017 from the available vadose zone wells along Cranbury South River Road. The samples were collected from ten vadose zone wells in May 2017 at the locations shown on Figure 14, and represent the first sampling round of these wells since July 2010. The results of the vadose zone sampling are presented in Table 5 and on Figure 14. The results from the July 2010 sampling event are also provided on Figure 14 for comparison to the 2017 sampling data. The comparison shows that the concentrations in the vadose zone wells decreased over this period in seven of the ten wells. The remaining three wells, all located near the northern property boundary of the JIS Site (MW45-V, MW-46V, and MW-65V), showed increased concentrations of TCE and PCE in the 2017 data compared to the 2010 data, which were all non-detect. The presence of TCE and PCE in these three wells in the 2017 sampling event may be related to the previously observed spike of TCE and PCE concentrations in the groundwater that recently passed through the biosparge treatment zone area. Similar to the observed groundwater spike, the spike in TCE and PCE in the vadose zone is considered a temporal one-time event that should quickly dissipate now that the groundwater spike has passed. It is recommended that these three vadose zone wells be sampled again in 2018 to confirm the conditions.

2.3.3 Indoor Air/Sub-Slab Vapor Assessment 2017

The long-term monitoring program for the JIS Site includes an indoor air quality assessment component. On March 31, 2017, GHD collected an indoor air sample from within the JIS building. A sample of the outdoor air adjacent to the JIS building was also collected and analyzed. The analytical results with a comparison to the applicable NJDEP air quality criteria for these samples are presented in Table 5. None of the detected compounds in the indoor air sample exceeded the New Jersey Rapid Action Levels or the NJDEP non-residential indoor air criteria. As was experienced with previous sampling events, some compounds were detected in the indoor air within the JIS building; however, most of the detected compounds (benzene, ethanol, ethylbenzene, and toluene) are found in petroleum-based products. Therefore, given that the office is attached to the JIS Co.'s former machine and truck repair shop, where such products were located, it is not



unexpected that vapors from such petroleum-based chemicals would be detected in the indoor air of the office.

It was also planned to collect a sub-slab vapor sample from the residence/auto body shop located to the southeast of the intersection of Cranbury South River Road and Docks Corner Road. However, permission to perform this sampling was not provided by the owner of the property. Consequently, the planned sub-slab sampling was not performed. An additional request has been made for access to collect these samples during the 2017/2018 winter heating season.

2.3.4 2017/2018 Sampling

Based upon the 2017 Vapor Intrusion Assessment, the vapor intrusion sampling planned for the upcoming 2017/2018 heating season will include the following:

- Sampling of the indoor and outdoor air within and near the JIS building (It is planned to include this sampling of the JIS building in each annual event, unless the building is demolished or no longer occupied or the groundwater quality meets the NJGWSLs). Although the building is no longer occupied, the indoor air sampling will be performed one last time during the 2017/2018 heating season.
- Sub-slab and outdoor air samples from beneath and near the residence/auto body shop located at the intersection of Cranbury South River Road and Docks Corner Road. A new request for access has been made to the owner of the property to address the historic presence of VOCs near this building.
- A request has also been made to collect an indoor air sample from the residential property located at 975 Cranbury South River Road (immediately north of the JIS Site – See Figure 14). The vadose zone air sample collected from well MW-65V immediately adjacent to the residential property in May 2017 contained TCE at a concentration of 210 µg/m³. The previous vadose zone samples collected from this well in 2009 and 2010 had no exceedance of a NJ Screening Level.
- Another set of vadose zone air samples will be collected from wells MW-45V, MW-46V, and MW-65V at the same time that the 2018 indoor air samples are collected.

Given the 2017 VI assessment and current land use, there are the only three buildings in the vicinity of a NJGWSL exceedance, and as such, these are the only buildings included in the planned sampling program for the coming heating season.

2.4 Site Maintenance

The routine Site inspections conducted over the past year have not identified any items requiring special attention other than the need to repair some additional fence sections and remove some woody vegetation on the north slope of the landfill and from along the existing fence lines. All of the remedial systems are operating/performing normally as follows:

- The air injection system operated as designed. The compressor received normal maintenance.
- The landfill cap is in good condition. There were no signs of erosion and the vegetative cover is healthy. The vegetation was cut three times; in May, August, and November 2017.



- The Site security has been upgraded. Additional sections of fence have been added to the north, east, and south perimeter of the property so that the fencing now encircles the entire property. In addition, a security camera system has been installed to monitor Site activity.

2.5 Reporting

The JIS Group submitted the 2016 Annual Report to the USEPA on February 2, 2017. That report covered the period January 2016 through December 2016. It is planned to submit these annual reports in January/February each year in conjunction with the JIS Group's preparations for the annual vapor intrusion investigations.

3. Additional Activities Performed in Reporting Period

3.1 Classification Exception Area

In 2011, the JIS Group submitted a report to the NJDEP providing information on the location of the JIS plume downgradient of the Site and a list of the private properties upon which the plume is located. (The list also included private properties upon which groundwater exceeds a NJGWQS, regardless of the location from which the chemicals may have been sourced). This documentation was accepted by the NJDEP and on May 6, 2013, the NJDEP issued a letter approving the Classification Exception Area (CEA) as defined in the report. In August 2013, the JIS Group sent registered letters to the property owners, municipalities, and county health departments included in the CEA. On June 6, 2017, the JIS Group submitted the biennial recertification of the CEA to the NJDEP using the groundwater data collected in March 2017. The next biennial recertification of the CEA will be due in May 2019 and will be based upon data collected early in 2019. It is noted that the groundwater concentrations in the plume continue to decrease, and therefore, the JIS Group anticipates that the area and therefore the number of properties included in the CEA will also decrease over time. Figure 15 shows the limits of the CEA based on the most recent groundwater data including any samples collected in 2017.

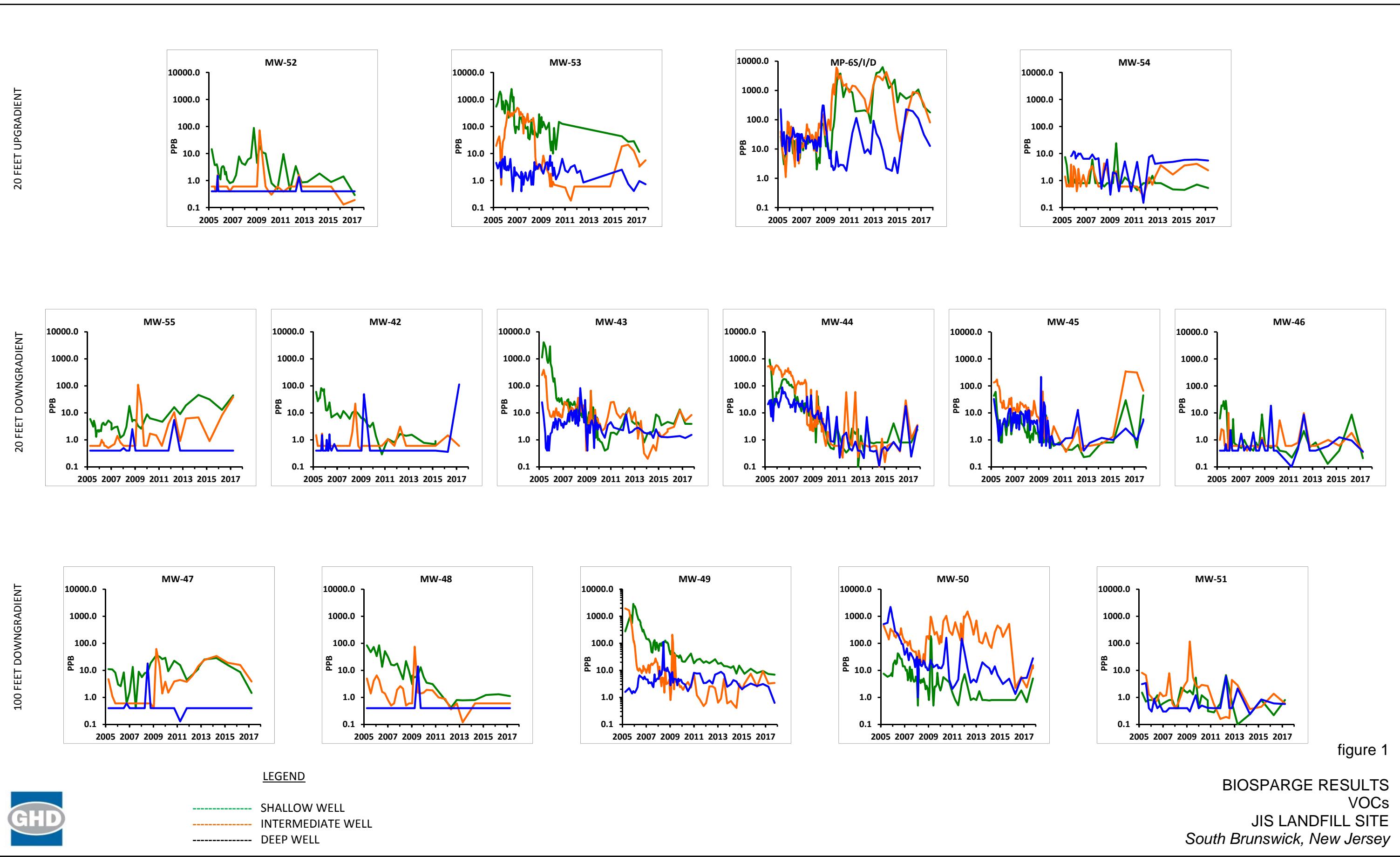
4. Work Scheduled for the Next Reporting Period

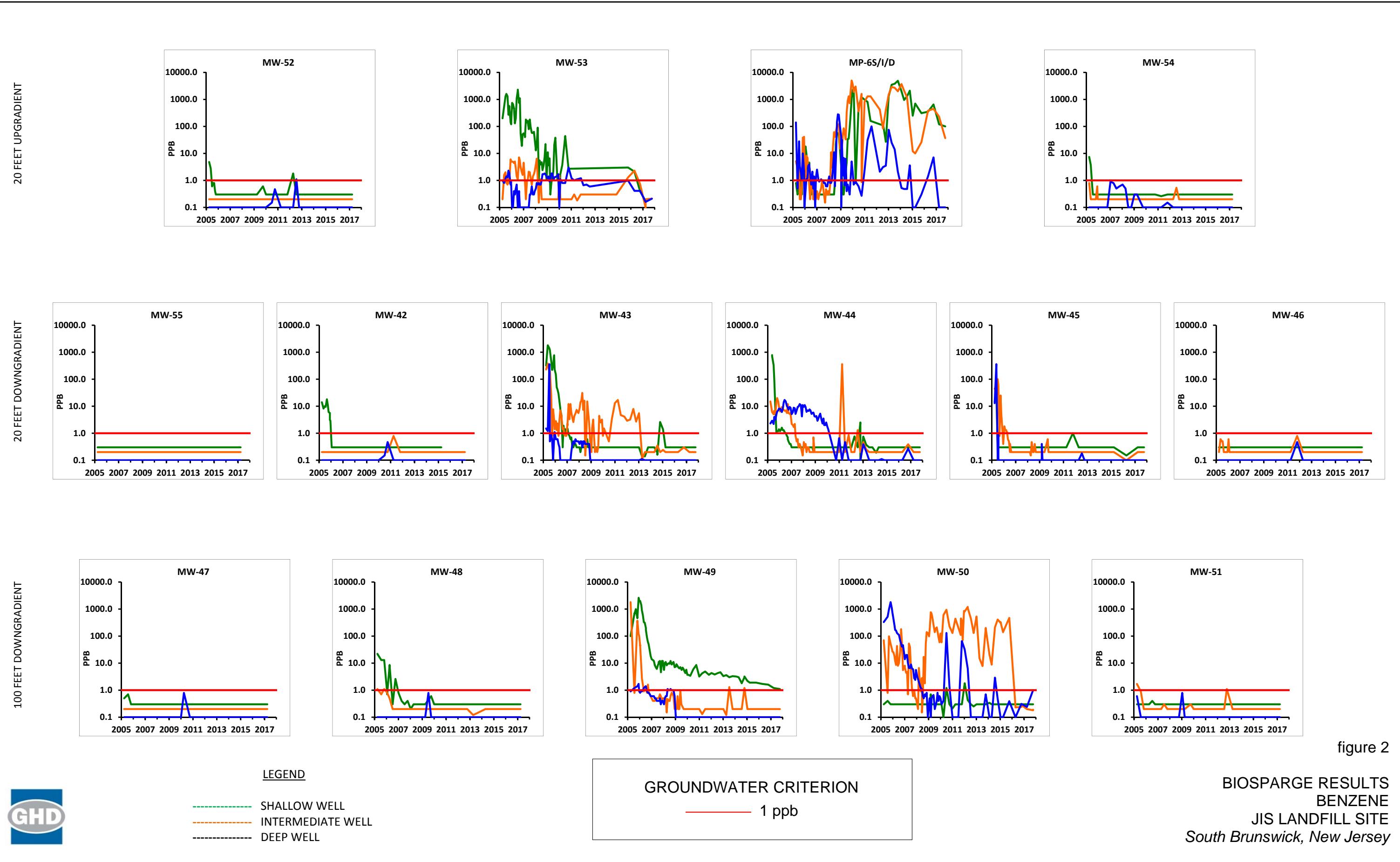
In the next reporting period (2018), the work to be performed will be compliant with the approved Remedial Action Work Plan. The following work is scheduled for the next reporting period:

- Continue to operate and maintain the biosparge treatment system.
- Continue the evaluation of groundwater monitoring well data for any needed changes in the groundwater monitoring program.
- Continue to perform the biosparge groundwater monitoring program and the annual plume groundwater monitoring program.
- Perform the soil vapor intrusion sampling during the winter months, including access requests.



- The annual report on the year's activities will be prepared and submitted in January/February 2019.
- Continue to work with the property owners in the immediate vicinity of the JIS Site on an as-needed basis.
- Finalize the plans for possible well relocation/abandonment for the wells located on the downgradient properties located east of the Site and implement the plans upon receiving USEPA approval.
- Complete the hydraulic study/perform additional investigation to determine the cause(s) of the resulting fluctuating groundwater concentrations observed at MW-5. A work plan will be submitted to USEPA for approval prior to implementation.





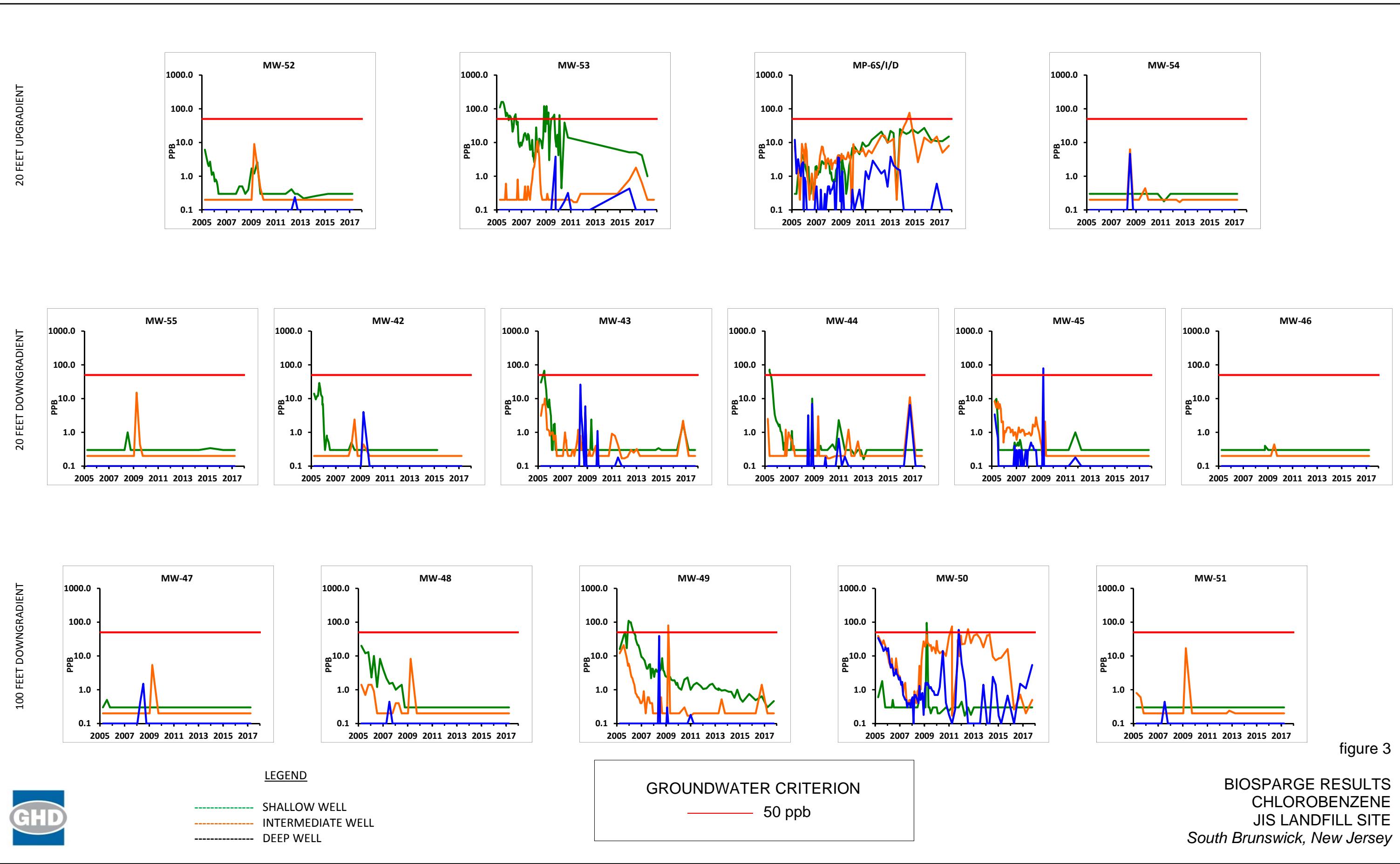


figure 3



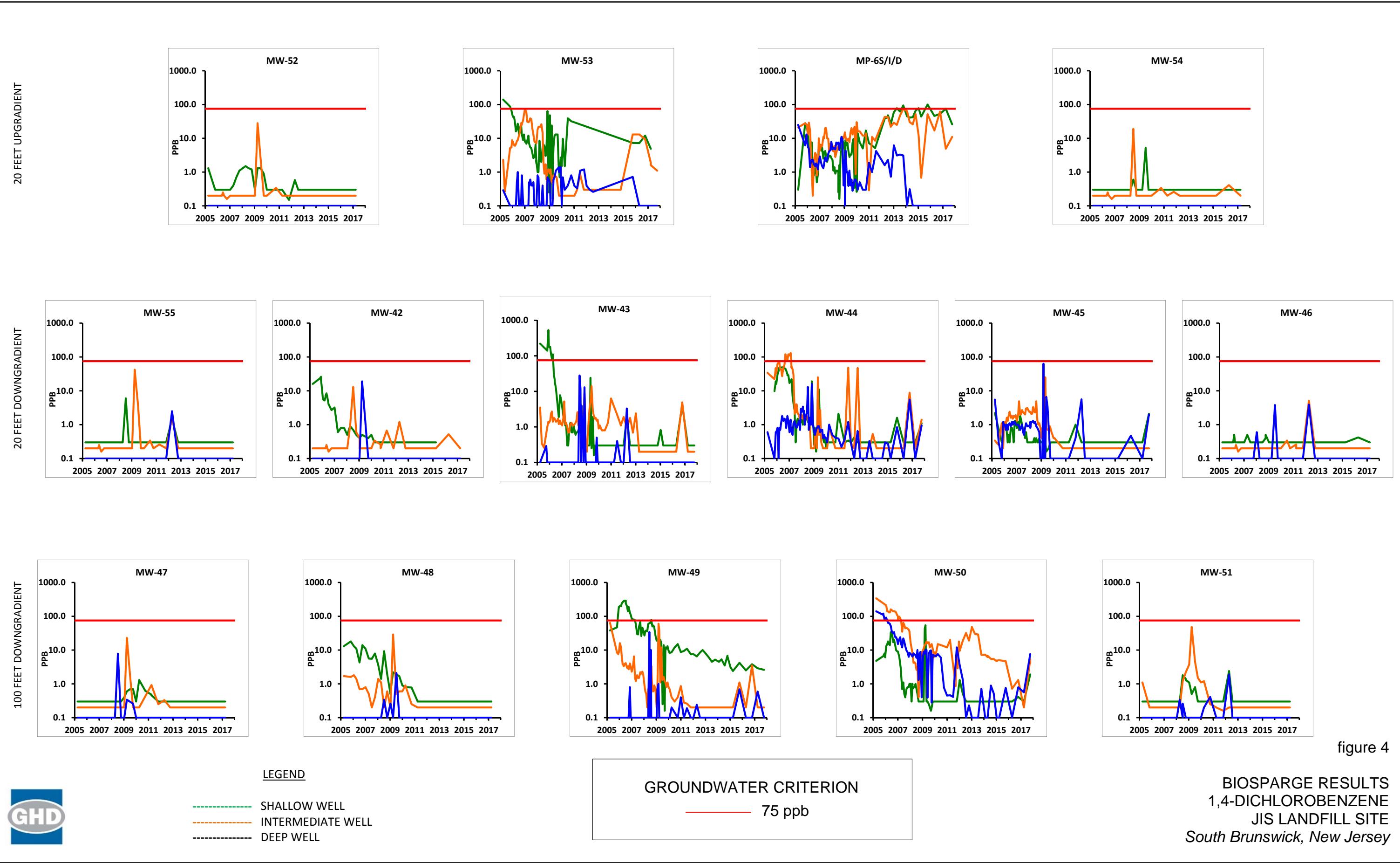
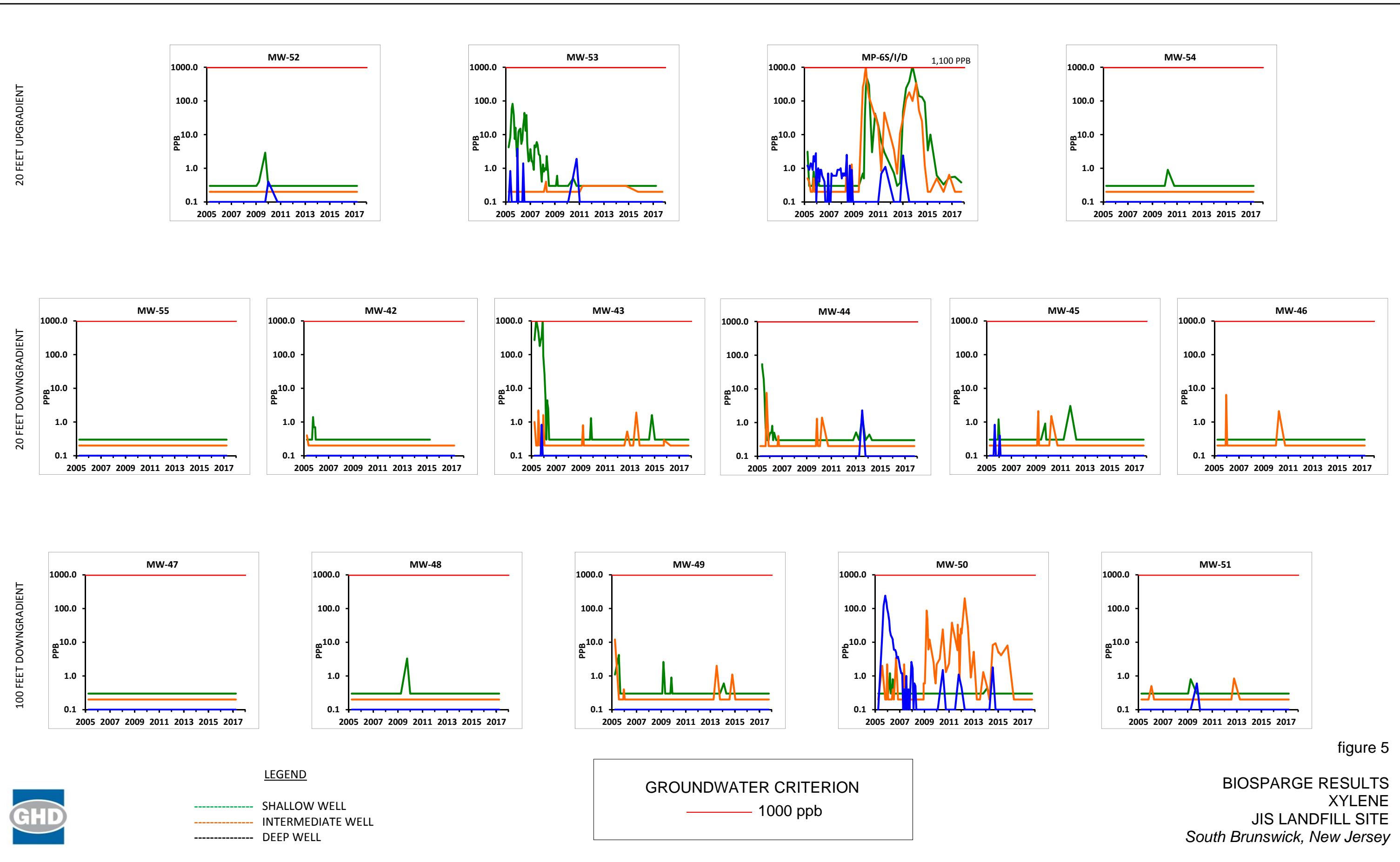


figure 4



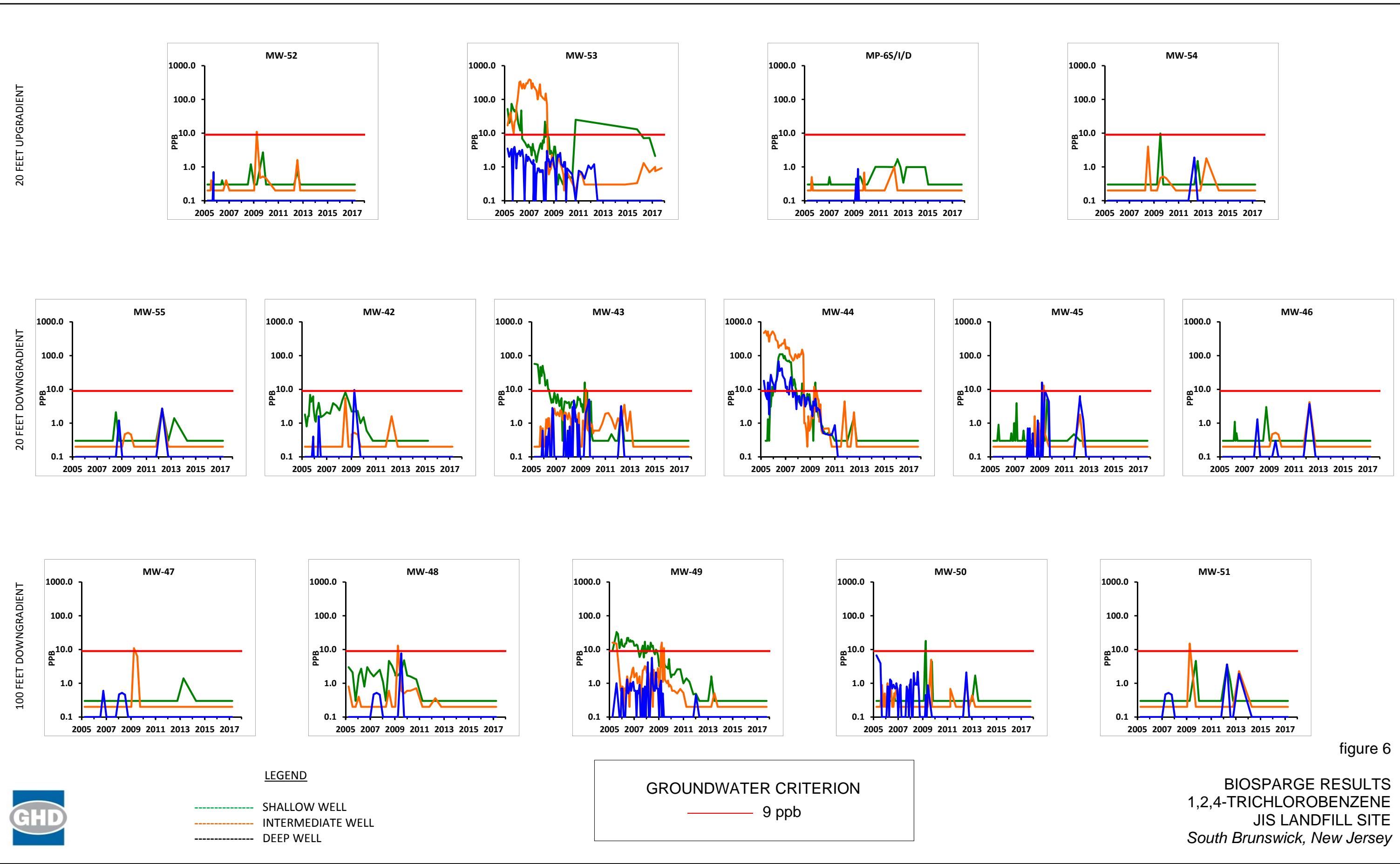
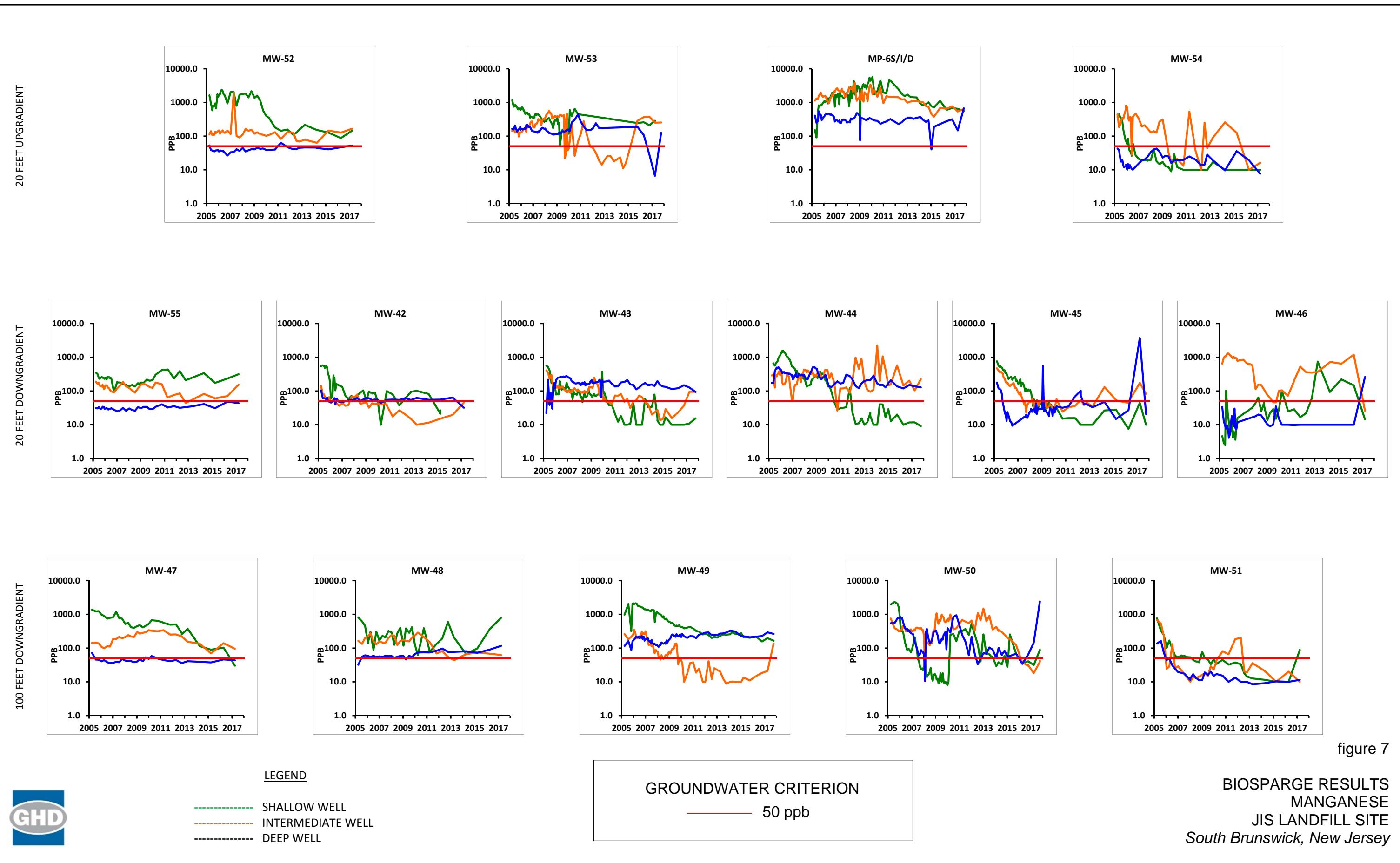
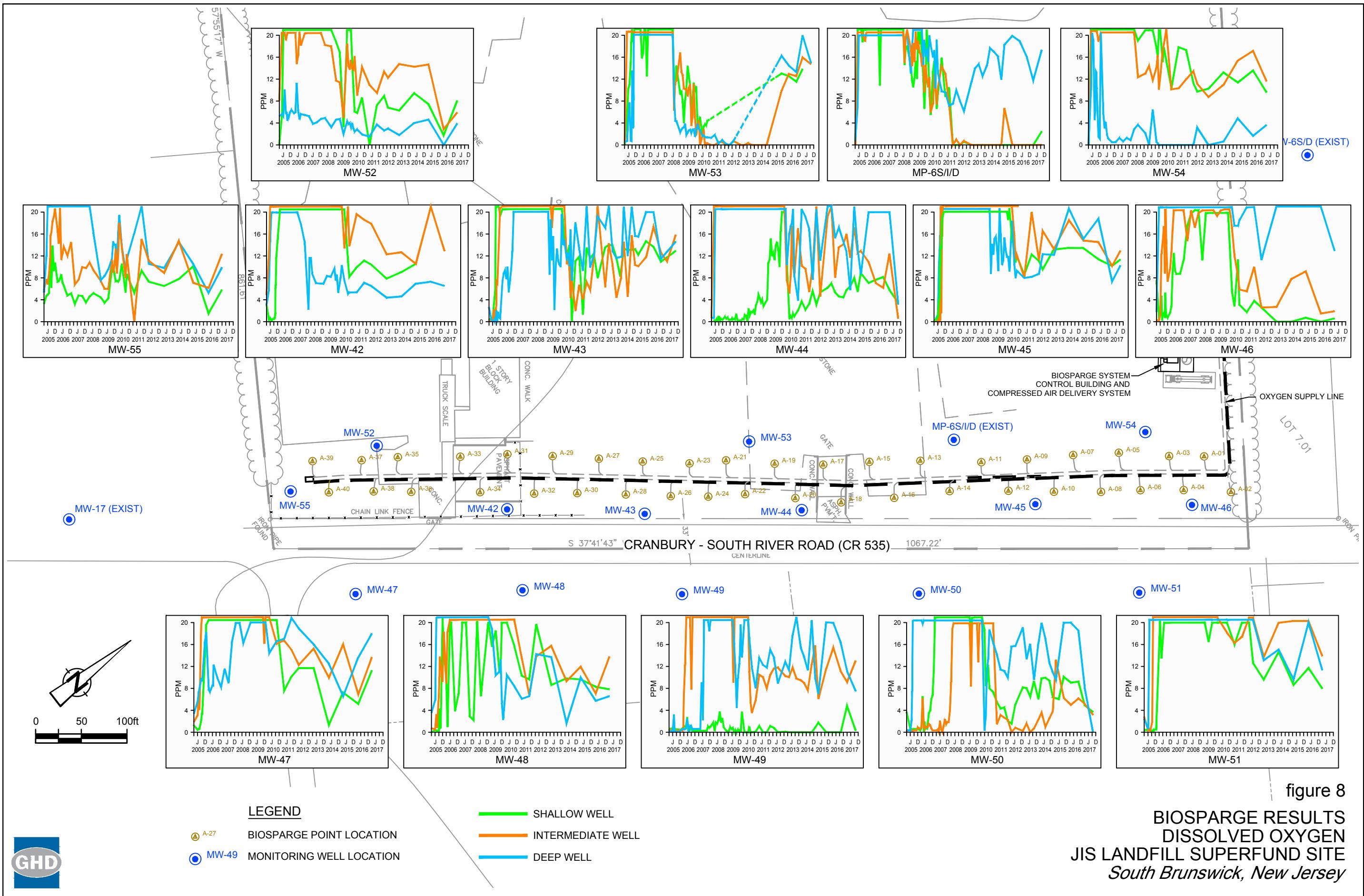
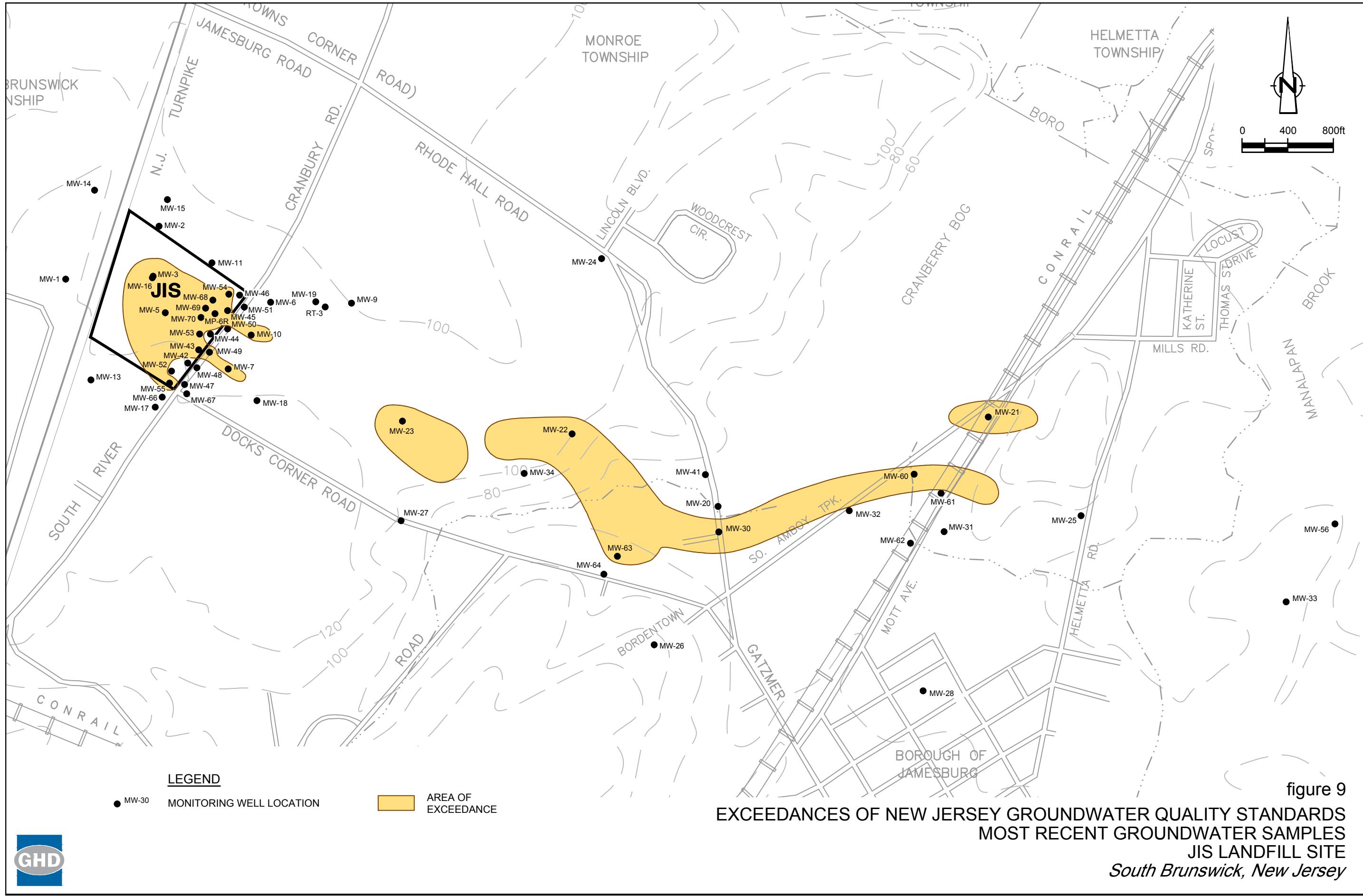
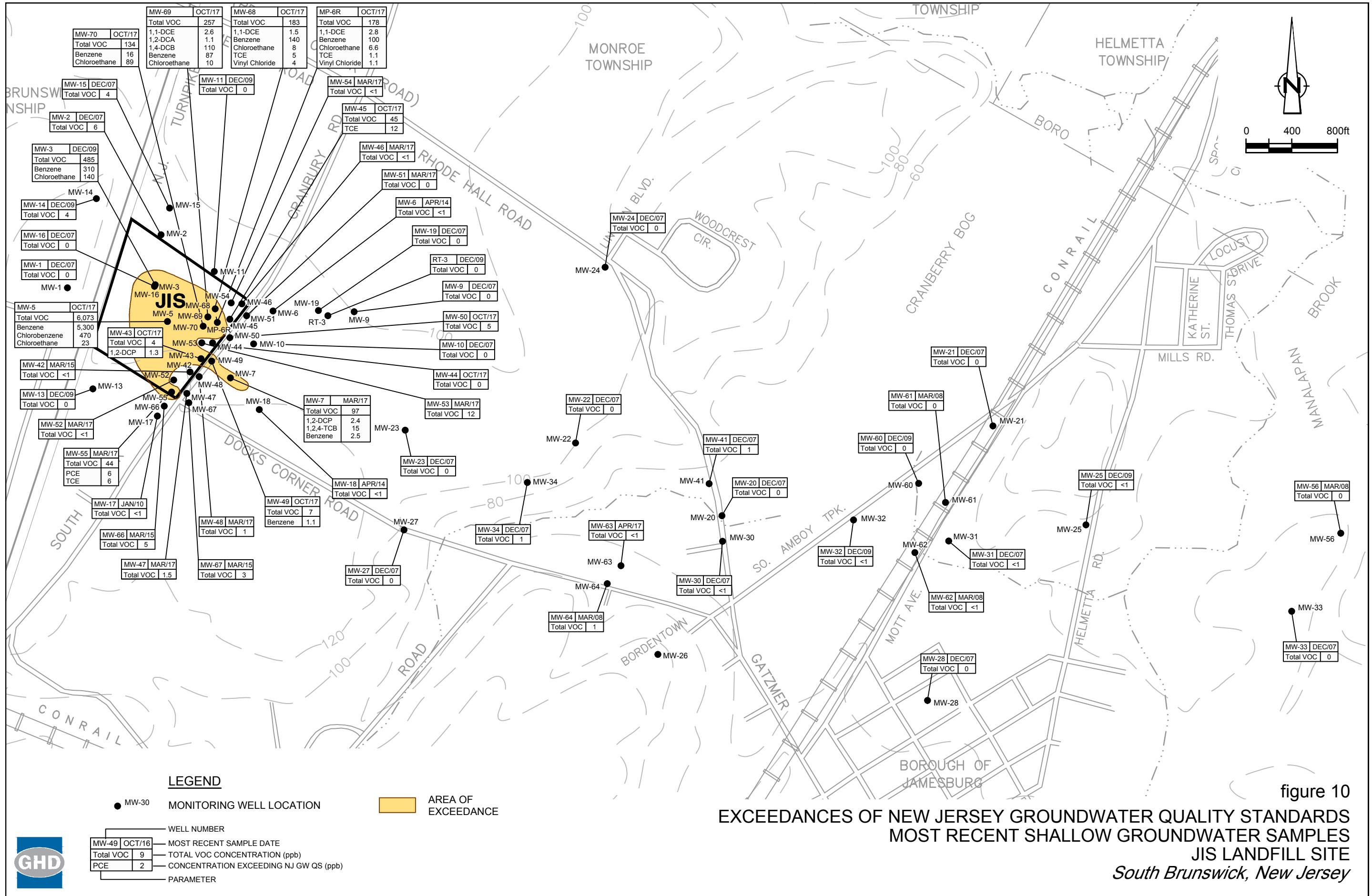


figure 6









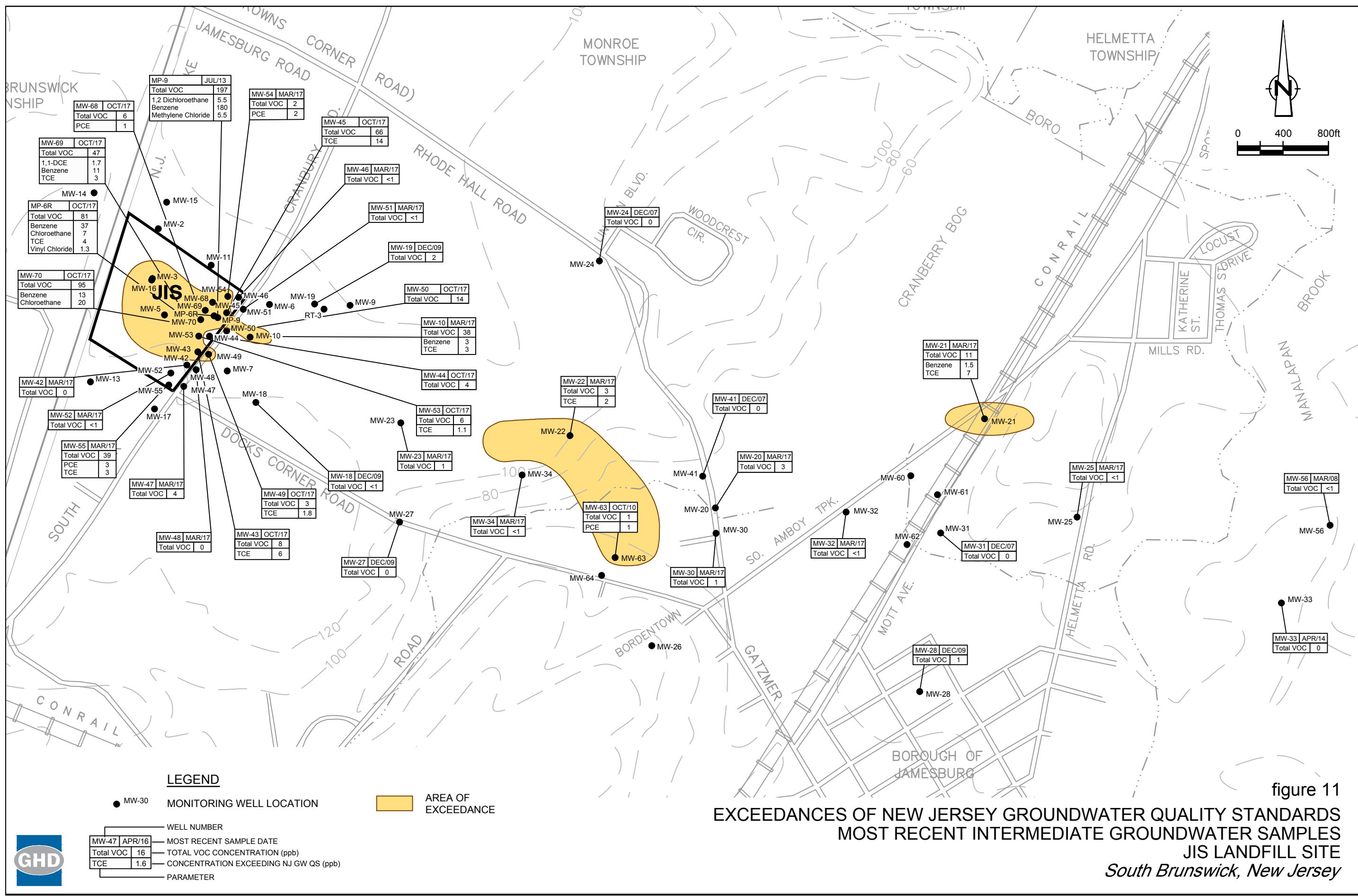
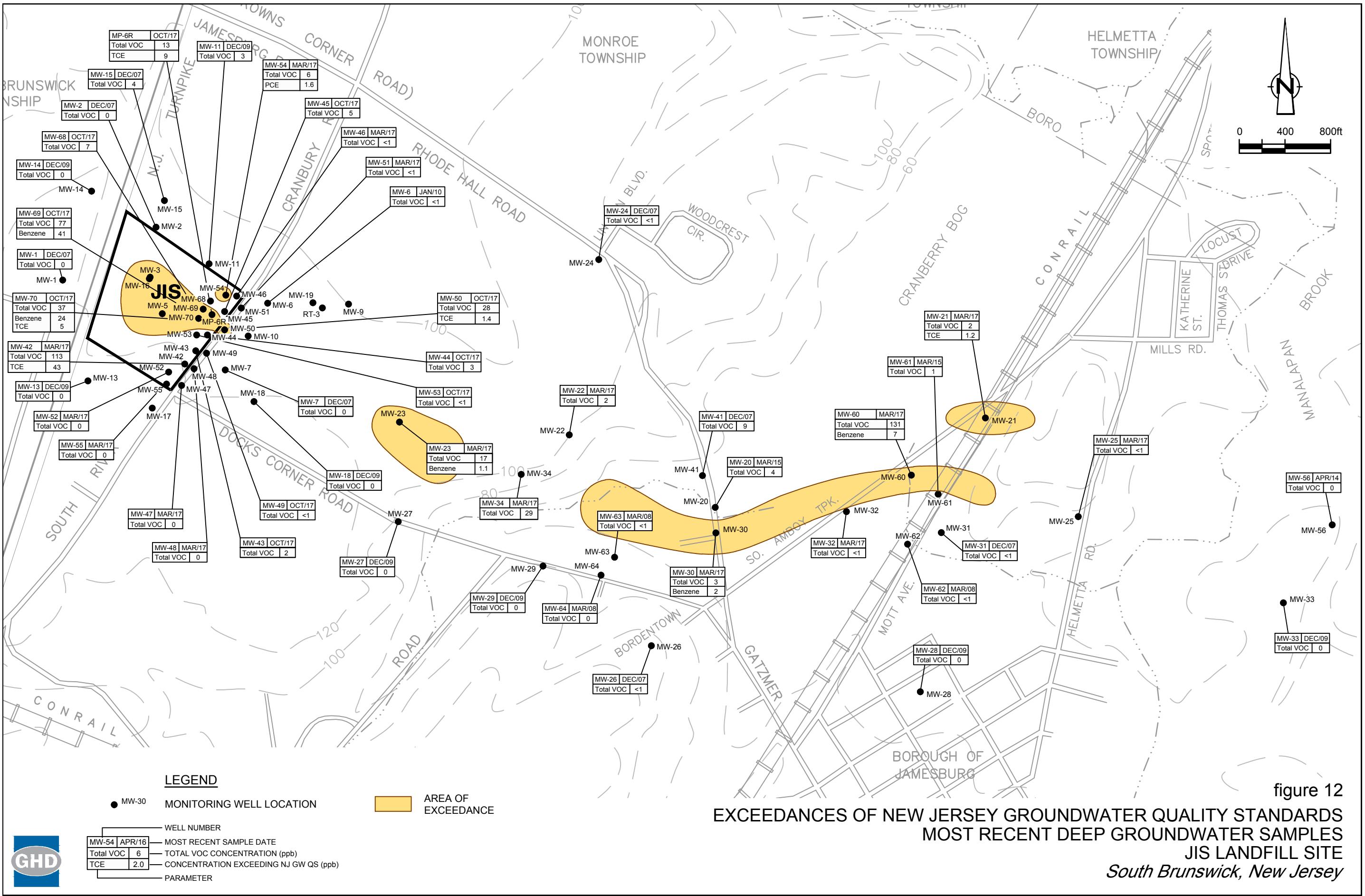


figure 11



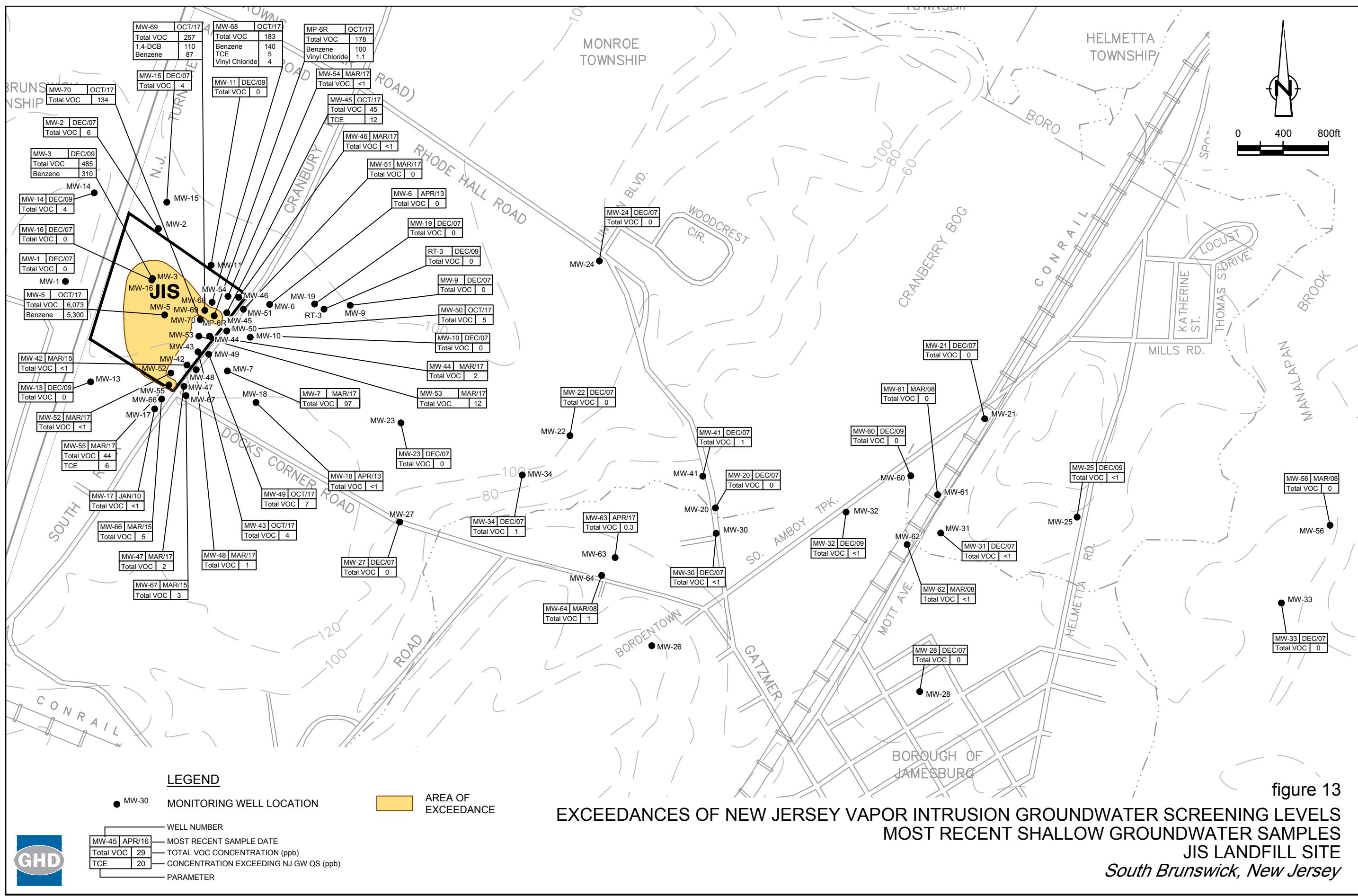


figure 13

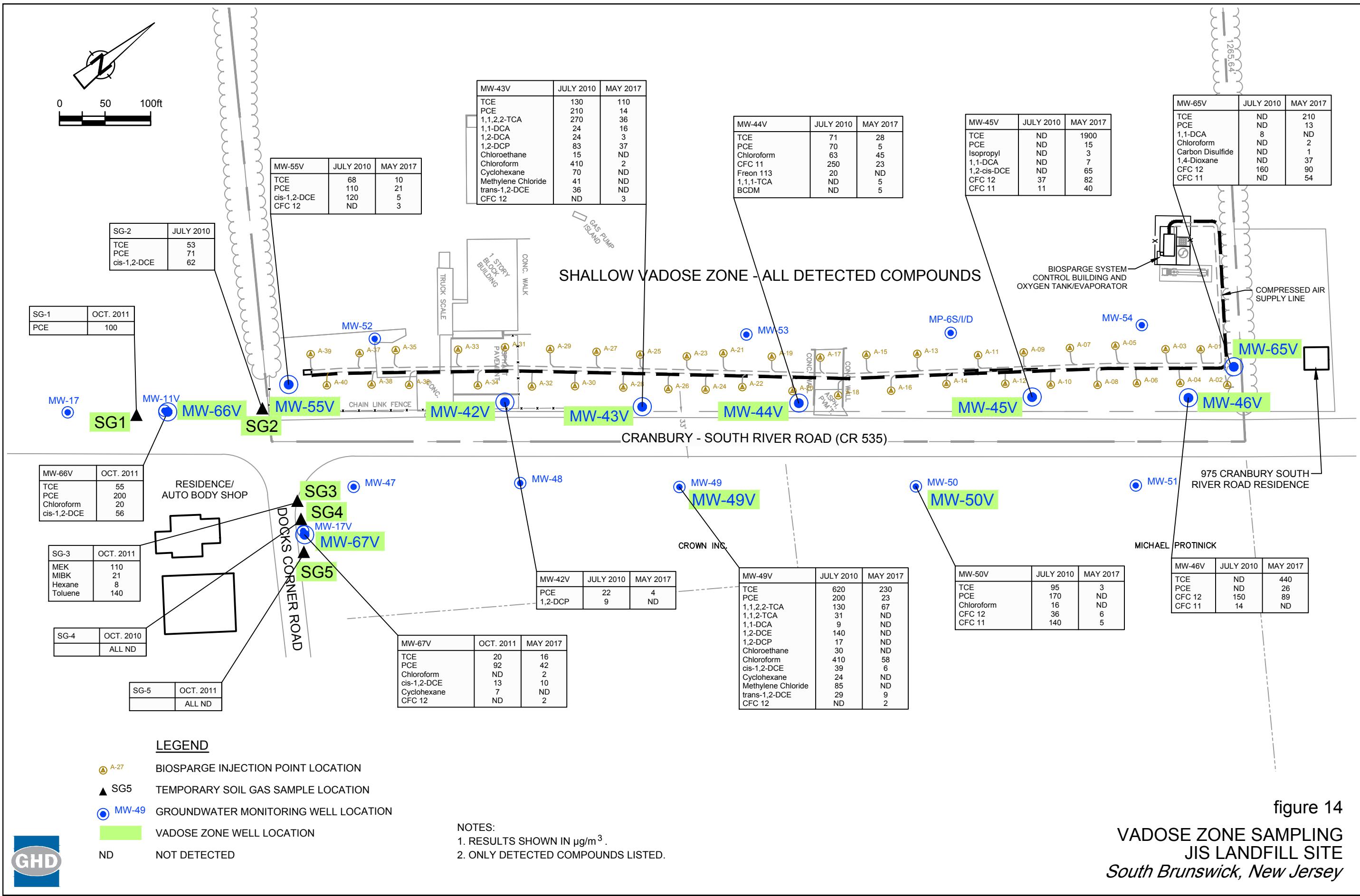


figure 14

VADOSE ZONE SAMPLING
JIS LANDFILL SITE
South Brunswick, New Jersey

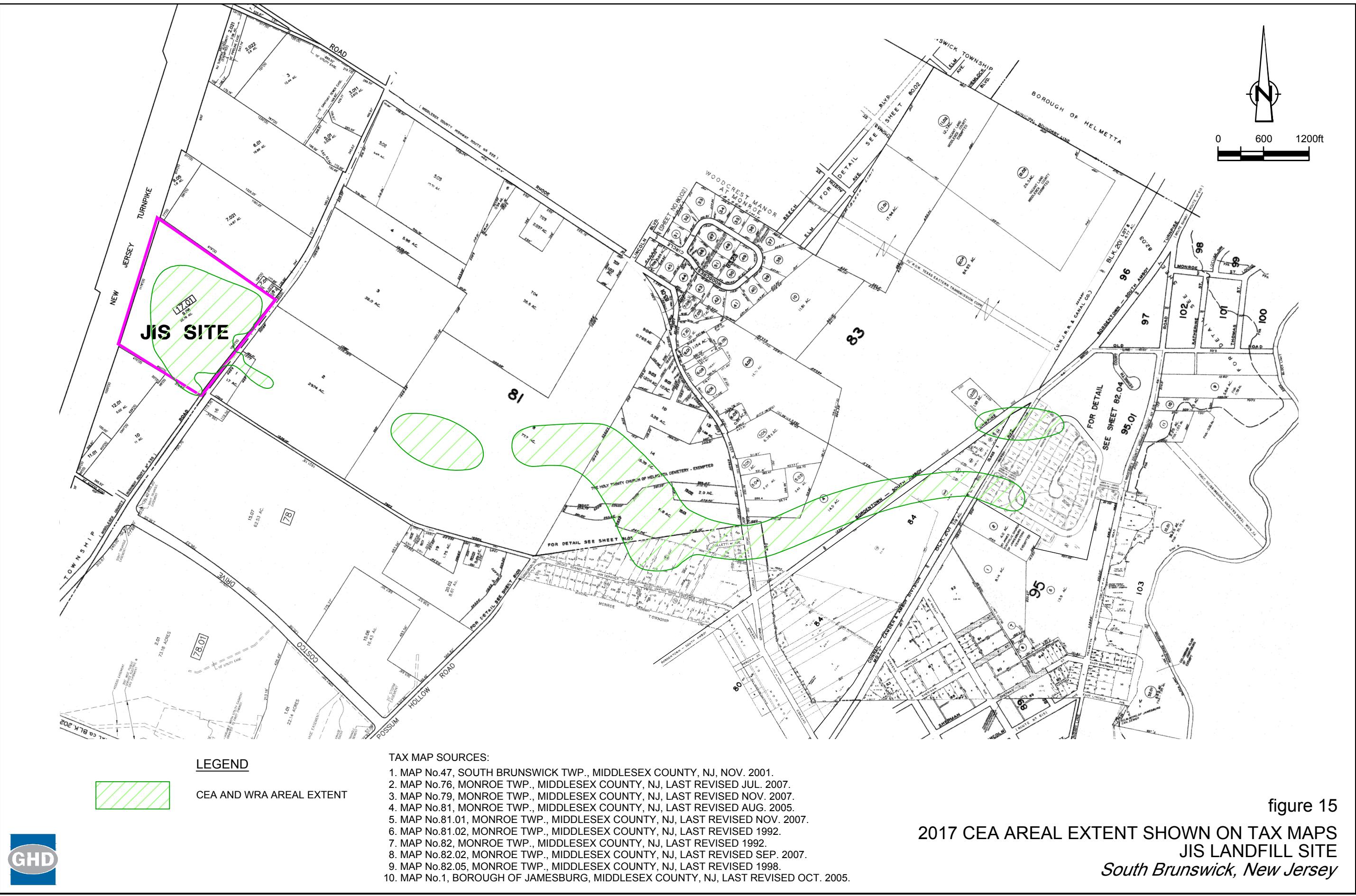


figure 15

**2017 CEA AREAL EXTENT SHOWN ON TAX MAPS
JIS LANDFILL SITE
*South Brunswick, New Jersey***



Table 1

**2017 Groundwater Analytical Results – NJGWQS Comparison
JIS Landfill Site
2017**

Sample Location: Sample Date:		MP-6SR 3/30/2017	MP-6SR 10/4/2017	MP-6IR 3/30/2017	MP-6IR 10/4/2017	MP-6D 3/30/2017	MP-6D 10/3/2017	MW-5 3/29/2017	MW-5 3/29/2017	MW-5 4/24/2017	MW-5 6/7/2017	MW-5 7/10/2017	MW-5 10/6/2017	MW-7S 3/22/2017	MW-10I 3/23/2017	MW-20I 3/21/2017	
Parameters	Units	New Jersey Higher of PQL and Ground Water Quality Criterion															
Volatiles																	
1,1,1-Trichloroethane	µg/L	30	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,1,2,2-Tetrachloroethane	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,1,2-Trichloroethane	µg/L	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,1-Dichloroethane	µg/L	50	0.59 J	0.52 J	0.62 J	0.61 J	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	0.49 J	1.0 U	1.0 U	
1,1-Dichloroethene	µg/L	1	1.0 U	2.8	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U*	100 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,2,4-Trichlorobenzene	µg/L	9	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	15	1.0 U	1.0 U	
1,2-Dichlorobenzene	µg/L	600	1.5	3.8	1.0 U	0.35 J	1.0 U	1.0 U	9.9	9.8	14	12	34 J	14	7.7	0.59 J	0.23 J
1,2-Dichloroethane	µg/L	2	0.30 J	0.34 J	1.0 U	0.34 J	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	1.1	1.0 U	1.0 U	
1,2-Dichloropropane	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	2.4	1.0 U	1.0 U	
1,3-Dichlorobenzene	µg/L	600	6.3	3.1	0.48 J	1.2	1.0 U	1.0 U	11	11	15	12	100 U	15	6.2	2.8	1.0 U
1,4-Dichlorobenzene	µg/L	75	26	4.9	11	1.0 U	1.0 U	17	17	23	19	64 J	31	50	11	1.3	
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	100 ⁽¹⁾	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	500 U	5.0 U	5.0 U	5.0 U	5.0 U	
Acetone	µg/L	6000	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	500 U	5.0 U	5.0 U	5.0 U	5.0 U	
Benzene	µg/L	1	120	100	230	37	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.5	3.1	1.0 U	
Bromodichloromethane	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U	
Bromoform	µg/L	4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U	
Bromomethane (Methyl bromide)	µg/L	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U	
Carbon tetrachloride	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U	
Chlorobenzene	µg/L	50	11	15	5.0	8.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10	8.0	0.31 J	
Chloroethane	µg/L	5 ⁽²⁾	6.5	6.6	5.1	6.5	1.0 U	1.0 U	11	11	11	10	100 U	23	1.0 U	2.2	1.0 U
Chloroform (Trichloromethane)	µg/L	70	1.0 U	1.0 U	1.0 U	1.0 U	0.31 J	0.41 J	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	100 ⁽¹⁾	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U	
cis-1,2-Dichloroethene	µg/L	70	39	10	23	6.4	6.4	2.3	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	6.6	1.0 U	
cis-1,3-Dichloropropene	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U	
Cyclohexane	µg/L	100 ⁽¹⁾	4.3	4.4	0.89 J	1.4	1.0 U	1.0 U	42	42	41	25	53 J	48	0.98 J	1.0 U	1.0 U
Dibromochloromethane	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U	
Dichlorodifluoromethane (CFC-12)	µg/L	1000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U*	100 U	1.0 U	1.0 U	1.0 U	1.0 U	
Ethylbenzene	µg/L	700	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	15	14	14	14	130	11	1.0 U	1.0 U	
Hexane	µg/L	30	1.3	0.98 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0	0.97 J	0.68 J	2.0 U	100 U	3.2	1.0 U	1.0 U	
Methylene chloride	µg/L	3	1.0 U	0.40 J	1.0 U	0.32 J	1.0 U	0.40 J	1.1 U	1.0 U	2.0 U	100 U	0.70 J	1.0 U	1.0 U	1.0 U	
Tetrachloroethene	µg/L	1	1.0 U	1.0 U	1.0 U	0.47 J	0.55 J	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	1.0 U	0.14 J	1.0 U	
Toluene	µg/L	600	1.6	1.3	0.95 J	0.52 J	1.0 U	1.0 U	2.2	2.2	6.6	6.1	35 J	7.4	0.29 J	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	100	2.8	1.0 U	2.2	1.0 U	1.0 U	1.0 U	1.0 U	0.24 J	2.0 U	100 U	1.0 U	0.19 J	0.88 J	0.29 J	
trans-1,3-Dichloropropene	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U	
Trichloroethene	µg/L	1	2.4	1.1	60 J	4.0	24	9.0	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	2.8	0.59 J	
Vinyl chloride	µg/L	1	5.2	1.1	7.0	1.3	1.0 U	0.081 J	1.0 U	1.0 U	2.0 U	100 U	1.0 U	0.34 J	1.0 U	1.0 U	
Xylenes (total)	µg/L	1000	0.56 J	0.38 J	2.0 U	2.0 U	2.0 U	2.0 U	200	200	110	65	1600	150	2.0 U	2.0 U	
Total VOCs	µg/L	--	278.35	177.82	340.14	81.04	31.18	12.741	2279.1	2277.97	5725.52	5354.1	27016	6073.3	96.85	38.31	2.86
Metals																	
Arsenic	µg/L	3	7.3	6.9	5.7	11.2	5.9	52.0	11.6	11.0	14.1	11.0	18.4	16.5	2.5 U	9.5	2.5 U
Iron	mg/L	0.3	7	16	6	7.2	8	12.8	50	--	--	--	--	140	5	9</td	

Table 1

**2017 Groundwater Analytical Results – NJGWQS Comparison
JIS Landfill Site
2017**

Sample Location: Sample Date:		MW-20D 3/21/2017	MW-21I 3/24/2017	MW-21D 3/24/2017	MW-22I 3/23/2017	MW-22D 3/23/2017	MW-23I 3/23/2017	MW-23D 3/23/2017	MW-25I 3/21/2017	MW-25D 3/21/2017	MW-30I 3/21/2017	MW-30D 3/21/2017	MW-32I 3/21/2017	MW-32D 3/22/2017	MW-34I 3/23/2017		
Parameters	Units	New Jersey Higher of PQL and Ground Water Quality Criterion															
Volatiles																	
1,1,1-Trichloroethane	µg/L	30	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,1,2,2-Tetrachloroethane	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	0.20 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,1,2-Trichloroethane	µg/L	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,1-Dichloroethane	µg/L	50	1.0 U	0.58 J	1.0 U	1.0 U	0.28 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.25 J	0.25 J	1.0 U	1.0 U	
1,1-Dichloroethene	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,2,4-Trichlorobenzene	µg/L	9	0.60 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.32 J	
1,2-Dichlorobenzene	µg/L	600	0.73 J	1.0 U	1.0 U	1.0 U	1.0 U	0.36 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dichloroethane	µg/L	2	0.59 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.26 J	1.0 U	1.0 U	1.0 U	
1,2-Dichloropropane	µg/L	1	0.26 J	0.36 J	1.0 U	1.0 U	0.21 J	1.0 U	1.0 U	0.19 J	1.0 U	0.30 J	1.0 U	0.36 J	1.0 U	1.0 U	
1,3-Dichlorobenzene	µg/L	600	0.86 J	1.0 U	1.0 U	1.0 U	1.0 U	1.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,4-Dichlorobenzene	µg/L	75	5.9	1.0 U	1.0 U	1.0 U	0.70 J	1.0 U	11	0.33 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.34 J	
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	100 ⁽¹⁾	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Acetone	µg/L	6000	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Benzene	µg/L	1	0.53 J	1.5	1.0 U	1.0 U	0.29 J	1.1	1.0 U	1.0 U	1.0 U	1.7	1.8	1.0 U	1.0 U	1.0 U	
Bromodichloromethane	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Bromoform	µg/L	4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Bromomethane (Methyl bromide)	µg/L	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Carbon tetrachloride	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Chlorobenzene	µg/L	50	1.8	1.0 U	1.0 U	1.0 U	1.0 U	2.8	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Chloroethane	µg/L	5 ⁽²⁾	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Chloroform (Trichloromethane)	µg/L	70	1.0 U	0.25 J	0.28 J	0.23 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Chloromethane (Methyl chloride)	µg/L	100 ⁽¹⁾	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
cis-1,2-Dichloroethene	µg/L	70	1.8	1.5	1.0 U	0.32 J	1.0 U	1.0 U	0.55 J	1.0 U	1.0 U	0.28 J	1.0 U	1.0 U	1.0 U	1.0 U	
cis-1,3-Dichloropropene	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Cyclohexane	µg/L	100 ⁽¹⁾	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Dibromochloromethane	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Dichlorodifluoromethane (CFC-12)	µg/L	1000	1.0 U	0.70 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Ethylbenzene	µg/L	700	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Hexane	µg/L	30	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Methylene chloride	µg/L	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Tetrachloroethene	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	0.18 J	1.0 U	0.39 J	0.43 J	0.80 J	0.22 J	0.23 J	0.46 J	0.29 J	1.0 U	
Toluene	µg/L	600	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
trans-1,2-Dichloroethene	µg/L	100	0.67 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
trans-1,3-Dichloropropene	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Trichloroethene	µg/L	1	0.44 J	6.5	1.2	2.0	0.45 J	0.58 J	1.0 U	1.0 U	0.22 J	0.22 J	1.0 U	1.0 U	0.22 J	1.0 U	
Vinyl chloride	µg/L	1	0.27 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Xylenes (total)	µg/L	1000	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	
Total VOCs	µg/L	--	14.45	10.69	2.18	2.55	1.64	1.25	17.31	0.72	0.62	1.3	2.69	2.54	0.46	0.87	0.66
Metals																	
Arsenic	µg/L	3	2.5 U	2.2 J	2.5 U	2.5 U											

Table 1

**2017 Groundwater Analytical Results – NJGWQS Comparison
JIS Landfill Site
2017**

Sample Location: Sample Date:		MW-34D 3/23/2017	MW-42I 3/22/2017	MW-42D 3/24/2017	MW-43S 3/29/2017	MW-43S 10/5/2017	MW-43I 3/29/2017	MW-43I 10/5/2017	MW-43D 3/29/2017	MW-43D 10/5/2017	MW-44S 3/29/2017	MW-44S 10/5/2017	MW-44I 3/29/2017	MW-44I 10/5/2017	MW-44D 3/29/2017	MW-44D 10/5/2017
Parameters	Units	New Jersey Higher of PQL and Ground Water Quality Criterion														
Volatiles																
1,1,1-Trichloroethane	µg/L	30	1.0 U													
1,1,2,2-Tetrachloroethane	µg/L	1	1.0 U													
1,1,2-Trichloroethane	µg/L	3	1.0 U	0.10 J	1.0 U											
1,1-Dichloroethane	µg/L	50	1.0 U	1.0 U	0.36 J	1.0 U	0.27 J	0.35 J	1.0 U	1.0 U						
1,1-Dichloroethene	µg/L	1	1.0 U													
1,2,4-Trichlorobenzene	µg/L	9	0.99 J	1.0 U												
1,2-Dichlorobenzene	µg/L	600	1.5	1.0 U	1.3 J	1.0 U	1.1 J	1.0 U	0.87 J							
1,2-Dichloroethane	µg/L	2	0.83 J	1.0 U	1.0 U	2.0	1.7	1.0 U	1.0 U	0.27 J	1.0 U					
1,2-Dichloropropane	µg/L	1	0.21 J	1.0 U	0.27 J	1.0 U	1.0 U	1.0 U								
1,3-Dichlorobenzene	µg/L	600	2.0	1.0 U	0.34 J											
1,4-Dichlorobenzene	µg/L	75	14	1.0 U	1.1 J	1.0 U	1.4 J	1.0 U	0.95 J							
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	100 ⁽¹⁾	5.0 U													
Acetone	µg/L	6000	5.0 U													
Benzene	µg/L	1	0.98 J	1.0 U												
Bromodichloromethane	µg/L	1	1.0 U													
Bromoform	µg/L	4	1.0 U													
Bromomethane (Methyl bromide)	µg/L	10	1.0 U													
Carbon tetrachloride	µg/L	1	1.0 U													
Chlorobenzene	µg/L	50	4.3	1.0 U												
Chloroethane	µg/L	5 ⁽²⁾	1.0 U													
Chloroform (Trichloromethane)	µg/L	70	1.0 U													
Chloromethane (Methyl chloride)	µg/L	100 ⁽¹⁾	1.0 U													
cis-1,2-Dichloroethene	µg/L	70	2.9	1.0 U	69	1.0 U	1.0 U	0.64 J	1.1	1.0 U	1.0 U	1.0 U	0.57 J	0.69 J	1.0 U	0.30 J
cis-1,3-Dichloropropene	µg/L	1	1.0 U													
Cyclohexane	µg/L	100 ⁽¹⁾	1.0 U													
Dibromochloromethane	µg/L	1	1.0 U													
Dichlorodifluoromethane (CFC-12)	µg/L	1000	1.0 U													
Ethylbenzene	µg/L	700	1.0 U													
Hexane	µg/L	30	1.0 U													
Methylene chloride	µg/L	3	1.0 U													
Tetrachloroethene	µg/L	1	1.0 U	0.15 J	1.0 U	0.21 J	0.40 J	0.84 J	0.76 J	0.79 J	1.0 U					
Toluene	µg/L	600	1.0 U													
trans-1,2-Dichloroethene	µg/L	100	1.0	0.25 J	0.19 J	1.0 U										
trans-1,3-Dichloropropene	µg/L	1	1.0 U													
Trichloroethene	µg/L	1	0.59 J	1.0 U	0.43 J	0.45 J	0.70 J	3.9	6.4	0.41 J	0.47 J	1.0 U	1.0 U	1.0 U	0.24 J	0.76 J
Vinyl chloride	µg/L	1	1.0 U													
Xylenes (total)	µg/L	1000	2.0 U													
Total VOCs	µg/L	--	29.3	0	112.76	3.94	3.91	5.04	8.34	1.17	1.53	0	2.4	1.11	3.54	0.24
Metals																
Arsenic	µg/L	3	1.5 J	2.5 U	2.4 J	2.5 U	3.0	2.5 U								
Iron	mg/L	0.3	1.4	2.6												

Table 1

2017 Groundwater Analytical Results – NJGWQS Comparison
JIS Landfill Site
2017

Sample Location:		MW-45S 3/24/2017	MW-45S 10/3/2017	MW-45I 3/24/2017	MW-45I 3/24/2017 Duplicate	MW-45I 10/3/2017	MW-45D 3/24/2017	MW-45D 10/3/2017	MW-45D 10/3/2017 Duplicate	MW-46S 3/23/2017	MW-46I 3/23/2017	MW-46D 3/23/2017	MW-47S 3/27/2017	MW-47I 3/27/2017	MW-47D 3/27/2017	MW-48S 3/28/2017	
Parameters	Units	New Jersey Higher of PQL and Ground Water Quality Criterion															
Volatiles																	
1,1,1-Trichloroethane	µg/L	30	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,1,2,2-Tetrachloroethane	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,1,2-Trichloroethane	µg/L	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.13 J	
1,1-Dichloroethane	µg/L	50	1.0 U	1.0 U	0.81 J	0.85 J	0.39 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,1-Dichloroethene	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,2,4-Trichlorobenzene	µg/L	9	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dichlorobenzene	µg/L	600	1.0 U	2.3	1.0 U	1.0 U	1.0 U	1.0 U	2.1 J	2.1	1.0 U						
1,2-Dichloroethane	µg/L	2	1.0 U	1.0 U	0.61 J	0.59 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.27 J	
1,2-Dichloropropane	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.72 J	
1,3-Dichlorobenzene	µg/L	600	1.0 U	0.36 J	1.0 U	1.0 U	1.0 U	1.0 U	0.35 J	0.38 J	1.0 U						
1,4-Dichlorobenzene	µg/L	75	1.0 U	2.1	1.0 U	1.0 U	1.0 U	1.0 U	2.0 J	1.9	1.0 U						
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	100 ⁽¹⁾	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Acetone	µg/L	6000	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Benzene	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Bromodichloromethane	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Bromoform	µg/L	4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Bromomethane (Methyl bromide)	µg/L	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Carbon tetrachloride	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Chlorobenzene	µg/L	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Chloroethane	µg/L	5 ⁽²⁾	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Chloroform (Trichloromethane)	µg/L	70	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Chloromethane (Methyl chloride)	µg/L	100 ⁽¹⁾	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
cis-1,2-Dichloroethene	µg/L	70	1.0 U	28	220	220	51	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.70 J	2.7	1.0 U	
cis-1,3-Dichloropropene	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Cyclohexane	µg/L	100 ⁽¹⁾	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Dibromochloromethane	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Dichlorodifluoromethane (CFC-12)	µg/L	1000	1.0 U	1.0 U	1.0 U	1.0 U	0.16 J	0.77 J	1.0 U	0.49 J	1.0 U						
Ethylbenzene	µg/L	700	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Hexane	µg/L	30	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Methylene chloride	µg/L	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Tetrachloroethene	µg/L	1	0.52 J	1.0 U	0.34 J	0.36 J	0.31 J	0.24 J	0.57 J	0.68 J	0.21 J	0.35 J	1.0 U	0.15 J	0.55 J	1.0 U	
Toluene	µg/L	600	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
trans-1,2-Dichloroethene	µg/L	100	1.0 U	1.0 U	2.4	2.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
trans-1,3-Dichloropropene	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Trichloroethene	µg/L	1	1.0 U	12	89	86	14	1.0 U	1.0 U	0.23 J	1.0 U	1.0 U	0.37 J	0.33 J	0.63 J	1.0 U	
Vinyl chloride	µg/L	1	1.0 U	0.62 J	0.59 J	0.070 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Xylenes (total)	µg/L	1000	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	
Total VOCs	µg/L	--	0.52	44.76	313.78	310.89	65.93	1.01	5.02	5.78	0.21	0.35	0.37	1.46	3.88	0	1.12
Metals																	
Arsenic	µg/L	3	1.8 J	2.5 U	2.3 J	2.5	1.8 J	2.5 U	2.5 U	1.8 J	2.5 U	3.7					
Iron	mg/L	0.3	0.8														

Table 1

**2017 Groundwater Analytical Results – NJGWQS Comparison
JIS Landfill Site
2017**

Sample Location:		MW-48I 3/28/2017	MW-48D 3/27/2017	MW-49S 3/28/2017	MW-49S 10/5/2017	MW-49I 3/30/2017	MW-49I 10/5/2017	MW-49D 3/30/2017	MW-49D 10/5/2017	MW-50S 3/30/2017	MW-50S 10/5/2017	MW-50I 3/30/2017	MW-50I 10/5/2017	MW-50I 10/5/2017 Duplicate	MW-50D 3/30/2017	MW-50D 10/5/2017
Parameters	Units	New Jersey Higher of PQL and Ground Water Quality Criterion														
Volatiles																
1,1,1-Trichloroethane	µg/L	30	1.0 U	1.0 U	1.0 U											
1,1,2,2-Tetrachloroethane	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	0.28 J	1.0 U	1.0 U	1.0 U						
1,1,2-Trichloroethane	µg/L	3	1.0 U	1.0 U	1.0 U	1.0 U	0.17 J	1.0 U	0.16 J	1.0 U	1.0 U	1.0 U				
1,1-Dichloroethane	µg/L	50	1.0 U	0.67 J	0.26 J	0.73 J	1.1	1.1	1.1	1.7						
1,1-Dichloroethene	µg/L	1	1.0 U	1.0 U	0.70 J											
1,2,4-Trichlorobenzene	µg/L	9	1.0 U	1.0 U	1.0 U	1.0 U	0.57 J	1.0 U	1.0 U	1.0 U						
1,2-Dichlorobenzene	µg/L	600	1.0 U	1.0 U	0.50 J	0.57 J	1.0 U	1.0 U	1.0 U	1.0 U	2.1	1.0 U	5.1 J	2.7 J	1.0 U	2.1
1,2-Dichloroethane	µg/L	2	1.0 U	1.0 U	0.35 J	0.28 J	1.0 U	1.0 U	0.30 J	1.0 U	1.0 U	0.39 J				
1,2-Dichloropropane	µg/L	1	1.0 U	1.0 U	0.34 J	0.24 J	1.0 U	0.32 J	1.0 U							
1,3-Dichlorobenzene	µg/L	600	1.0 U	0.48 J	1.0 U	1.2	0.96 J	1.0 U	2.8							
1,4-Dichlorobenzene	µg/L	75	1.0 U	1.0 U	2.9	2.6	1.0 U	1.0 U	0.59 J	1.0 U	1.0 U	1.9	1.0 U	5.3	4.1	0.56 J
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	100 ⁽¹⁾	5.0 U	5.0 U	5.0 U											
Acetone	µg/L	6000	5.0 U	5.0 U	5.0 U											
Benzene	µg/L	1	1.0 U	0.18 J	0.19 J	0.24 J	1.0									
Bromodichloromethane	µg/L	1	1.0 U	1.0 U	1.0 U											
Bromoform	µg/L	4	1.0 U	1.0 U	1.0 U											
Bromomethane (Methyl bromide)	µg/L	10	1.0 U	1.0 U	1.0 U											
Carbon tetrachloride	µg/L	1	1.0 U	1.0 U	1.0 U											
Chlorobenzene	µg/L	50	1.0 U	1.0 U	0.46 J	1.0 U	0.50 J	0.49 J	1.1	5.4						
Chloroethane	µg/L	5 ⁽²⁾	1.0 U	1.3	1.2	1.1	4.1									
Chloroform (Trichloromethane)	µg/L	70	1.0 U	1.0 U	1.0 U											
Chloromethane (Methyl chloride)	µg/L	100 ⁽¹⁾	1.0 U	1.0 U	1.0 U											
cis-1,2-Dichloroethene	µg/L	70	1.0 U	1.0 U	1.2	0.73 J	0.69 J	1.2	0.26 J	1.0 U	1.0 U	1.0 U	0.48 J	0.49 J	1.0 U	0.42 J
cis-1,3-Dichloropropene	µg/L	1	1.0 U	1.0 U	1.0 U											
Cyclohexane	µg/L	100 ⁽¹⁾	1.0 U	1.0 U	0.30 J	1.0 U	1.0 U	1.0 U								
Dibromochloromethane	µg/L	1	1.0 U	1.0 U	1.0 U											
Dichlorodifluoromethane (CFC-12)	µg/L	1000	1.0 U	1.0 U	1.0 U											
Ethylbenzene	µg/L	700	1.0 U	1.0 U	1.0 U											
Hexane	µg/L	30	1.0 U	1.0 U	1.0 U											
Methylene chloride	µg/L	3	1.0 U	1.0 U	0.33 J											
Tetrachloroethene	µg/L	1	1.0 U	1.0 U	1.0 U	0.18 J	0.15 J	0.59 J	0.27 J	1.0 U	1.0 U	1.0 U				
Toluene	µg/L	600	1.0 U	1.0 U	1.0 U											
trans-1,2-Dichloroethene	µg/L	100	1.0 U	0.24 J	1.0 U											
trans-1,3-Dichloropropene	µg/L	1	1.0 U	1.0 U	1.0 U											
Trichloroethene	µg/L	1	1.0 U	0.51 J	0.44 J	2.2	1.8	0.60 J	0.36 J	1.0 U	0.27 J	0.30 J	0.49 J	0.43 J	0.74 J	1.4
Vinyl chloride	µg/L	1	1.0 U	0.35 J	0.21 J	1.0 U	1.0 U	1.0 U								
Xylenes (total)	µg/L	1000	2.0 U	2.0 U	2.0 U											
Total VOCs	µg/L	--	0	0	7.35	6.93	3.24	3.43	2.5	0.63	0.67	5.01	2.33	15.55	11.88	5.28
Metals																
Arsenic	µg/L	3	2.5 U	2.0 J	3.7	2.9	2.5 U	2.5 U	1.9 J	2.5 U	2.5 U	2.4 J	2.5 U	2.5 U	2.5 U	2.5 U
Iron	mg/L	0.3	2.8	1.5</												

Table 1

**2017 Groundwater Analytical Results – NJGWQS Comparison
JIS Landfill Site
2017**

Sample Location: Sample Date:		MW-51S 3/24/2017	MW-51I 3/24/2017	MW-51D 3/24/2017	MW-52S 3/22/2017	MW-52I 3/22/2017	MW-52D 3/22/2017	MW-53S 3/27/2017	MW-53I 3/27/2017	MW-53I 3/27/2017 Duplicate	MW-53I 10/4/2017	MW-53D 3/27/2017	MW-53DR 10/3/2017	MW-54S 3/23/2017	MW-54I 3/23/2017	MW-54D 3/22/2017
Parameters	Units	New Jersey Higher of PQL and Ground Water Quality Criterion														
Volatiles																
1,1,1-Trichloroethane	µg/L	30	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U							
1,1,2,2-Tetrachloroethane	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U							
1,1,2-Trichloroethane	µg/L	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U							
1,1-Dichloroethane	µg/L	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U							
1,1-Dichloroethene	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U							
1,2,4-Trichlorobenzene	µg/L	9	1.0 U	2.1	1.0	0.75 J	0.92 J	1.0 U	1.0 U	1.0 U	1.0 U					
1,2-Dichlorobenzene	µg/L	600	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U							
1,2-Dichloroethane	µg/L	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U							
1,2-Dichloropropane	µg/L	1	1.0 U	1.0 U	1.0 U	0.29 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.69 J	0.21 J	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	600	1.0 U	1.1	1.0 U	1.0 U	0.40 J	1.0 U	1.0 U	1.0 U	1.0 U					
1,4-Dichlorobenzene	µg/L	75	1.0 U	4.9	1.9	1.6	1.1	1.0 U	1.0 U	1.0 U	1.0 U					
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	100 ⁽¹⁾	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U							
Acetone	µg/L	6000	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U							
Benzene	µg/L	1	1.0 U	0.17 J	0.096 J	1.0 U	0.21 J	0.16 J	0.21 J	1.0 U	1.0 U					
Bromodichloromethane	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U							
Bromoform	µg/L	4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U							
Bromomethane (Methyl bromide)	µg/L	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U							
Carbon tetrachloride	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U							
Chlorobenzene	µg/L	50	1.0 U	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
Chloroethane	µg/L	5 ⁽²⁾	1.0 U	2.3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U					
Chloroform (Trichloromethane)	µg/L	70	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U							
Chloromethane (Methyl chloride)	µg/L	100 ⁽¹⁾	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U							
cis-1,2-Dichloroethene	µg/L	70	1.0 U	0.34 J	1.0 U	1.0 U	1.0 U	1.0 U	0.32 J	0.30 J	1.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U							
Cyclohexane	µg/L	100 ⁽¹⁾	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U							
Dibromochloromethane	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U							
Dichlorodifluoromethane (CFC-12)	µg/L	1000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.9							
Ethylbenzene	µg/L	700	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U							
Hexane	µg/L	30	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U							
Methylene chloride	µg/L	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U							
Tetrachloroethene	µg/L	1	1.0 U	0.57 J	1.0 U	0.19 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.16 J	1.0 U	0.53 J	2.4
Toluene	µg/L	600	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U							
trans-1,2-Dichloroethene	µg/L	100	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U							
trans-1,3-Dichloropropene	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U							
Trichloroethene	µg/L	1	1.0 U	0.26 J	1.0 U	1.0 U	1.0 U	1.0 U	0.63 J	0.63 J	1.1	0.43 J	0.52 J	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	1	1.0 U	0.086 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U							
Xylenes (total)	µg/L	1000	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U							
Total VOCs	µg/L	--	0	0.6	0.57	0.29	0.19	0	11.57	3.946	3.28	5.606	0.96	0.73	0.53	2.4
Metals																
Arsenic	µg/L	3	2.5 U	4.0	2.1 J	2.4 J	2.5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U				
Iron	mg/L	0.3	0.6	0	1											

Table 1

**2017 Groundwater Analytical Results – NJGWQS Comparison
JIS Landfill Site
2017**

Sample Location:		MW-55S 3/22/2017	MW-55I 3/22/2017	MW-55D 3/22/2017	MW-60D 3/21/2017	MW-63S 4/3/2017	MW-68S 3/30/2017	MW-68S 10/4/2017	MW-68I 3/30/2017	MW-68I 10/4/2017	MW-68D 3/30/2017	MW-68D 10/4/2017	MW-69S 3/28/2017	MW-69S 10/6/2017	MW-69I 3/29/2017	MW-69I 10/6/2017	
Parameters	Units	New Jersey Higher of PQL and Ground Water Quality Criterion															
Volatiles																	
1,1,1-Trichloroethane	µg/L	30	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,1,2,2-Tetrachloroethane	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,1,2-Trichloroethane	µg/L	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
1,1-Dichloroethane	µg/L	50	1.0 U	1.0 U	1.0 U	0.75 J	1.0 U	0.69 J	0.41 J	0.32 J	1.0 U	1.0 U	1.0 U	0.91 J	0.58 J	0.63 J	
1,1-Dichloroethene	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.5	1.0 U	2.6	1.7					
1,2,4-Trichlorobenzene	µg/L	9	1.0 U	1.0 U	1.0 U	1.0 U	1.7	1.0 U	0.29 J	1.0 U							
1,2-Dichlorobenzene	µg/L	600	1.0 U	1.0 U	1.0 U	2.0	1.0 U	2.3	2.9	1.1							
1,2-Dichloroethane	µg/L	2	1.0 U	1.0 U	1.0 U	0.60 J	1.0 U	1.0 U	0.25 J	1.0 U	1.0 U	1.0 U	1.0 U	0.84 J	0.41 J	0.31 J	
1,2-Dichloropropane	µg/L	1	1.0 U	1.0 U	1.0 U	0.33 J	1.0 U	1.0 U	0.23 J	1.0 U	1.0 U	1.0 U	1.0 U	0.75 J	1.0 U	1.0 U	
1,3-Dichlorobenzene	µg/L	600	1.0 U	1.0 U	1.0 U	7.3	1.0 U	0.58 J	0.71 J	1.0 U	1.0 U	1.0 U	1.0 U	8.4	12	4.4	
1,4-Dichlorobenzene	µg/L	75	1.0 U	1.0 U	1.0 U	63	1.0 U	1.5	2.1	0.39 J	1.0 U	0.74 J	1.0 U	66	110	27	
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	100 ⁽¹⁾	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Acetone	µg/L	6000	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Benzene	µg/L	1	1.0 U	1.0 U	1.0 U	7.1	1.0 U	400	140	0.96 J	0.46 J	1.0 U	0.25 J	480	87	33	
Bromodichloromethane	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Bromoform	µg/L	4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Bromomethane (Methyl bromide)	µg/L	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Carbon tetrachloride	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Chlorobenzene	µg/L	50	1.0 U	1.0 U	1.0 U	45	1.0 U	4.4	8.0	0.28 J	1.0 U	1.0 U	0.44 J	23	19	8.5	
Chloroethane	µg/L	5 ⁽²⁾	1.0 U	1.0 U	1.0 U	2.5	8.1	1.0 U	16	10	7.1						
Chloroform (Trichloromethane)	µg/L	70	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Chloromethane (Methyl chloride)	µg/L	100 ⁽¹⁾	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
cis-1,2-Dichloroethene	µg/L	70	32	32	1.0 U	1.8	1.0 U	73	8.4	1.1	0.32 J	1.0 U	1.0 U	15	1.7	0.63 J	
cis-1,3-Dichloropropene	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Cyclohexane	µg/L	100 ⁽¹⁾	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11	6.0	2.8	
Dibromochloromethane	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Dichlorodifluoromethane (CFC-12)	µg/L	1000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.9	1.0 U	1.5	
Ethylbenzene	µg/L	700	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.46 J	1.0 U	1.1	1.0 U	1.0 U					
Hexane	µg/L	30	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.34 J	0.41 J	1.0 U	1.0 U	1.0 U	1.0 U	1.5	1.3	0.87 J	
Methylene chloride	µg/L	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.49 J	1.0 U	1.0 U	1.0 U	1.0 U	0.23 J	1.0 U	0.43 J	0.30 J	
Tetrachloroethene	µg/L	1	6.1	3.0	1.0 U	0.30 J	1.0 U	1.0 U	1.2	0.26 J	1.0 U	1.0 U	0.88 J	1.0 U	1.0 U	1.0 U	
Toluene	µg/L	600	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.5	0.58 J	1.0 U	1.0 U	1.0 U	1.0 U	2.4	1.1	0.54 J	
trans-1,2-Dichloroethene	µg/L	100	0.26 J	0.48 J	1.0 U	1.2	1.0 U	1.7	1.0 U	1.0 U	1.0 U	1.0 U	2.9	1.0 U	1.8	1.0 U	
trans-1,3-Dichloropropene	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Trichloroethene	µg/L	1	6.1	3.1	1.0 U	0.26 J	1.0 U	20	5.1	1.3	0.84 J	0.27 J	0.47 J	0.49 J	0.60 J	2.0	
Vinyl chloride	µg/L	1	1.0 U	0.33 J	1.0 U	1.0 U	1.0 U	23	4.0	1.0 U	0.087 J	1.0 U	1.0 U	6.4	0.89 J	1.0 U	
Xylenes (total)	µg/L	1000	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.4	0.69 J	0.45 J	
Total VOCs	µg/L	--	44.46	38.91	0	131.04	0.3	531.87	182.98	5.81	5.667	0.65	6.91	641.39	257.49	93.53	46.83
Metals																	
Arsenic	µg/L	3	2.5 U	2.5 U	2.5 U	2.5 U	--	4.3	4.4	8.6	7.6	2.4 J	2.5 U	11.9	12.2	7.2	7.9
Iron	mg/L	0.3	0	0.8	0	3	--	10.6	7.4	7	6						

Table 1

2017 Groundwater Analytical Results – NJGWQS Comparison
JIS Landfill Site
2017

Sample Location:		MW-69D 3/29/2017	MW-69D 10/6/2017	MW-70S 3/28/2017	MW-70S 10/3/2017	MW-70I 3/29/2017	MW-70I 10/3/2017	MW-70D 3/28/2017	MW-70D 10/3/2017	PW-1I 3/28/2017	PW-1D 3/27/2017	PW-2I 3/22/2017	PW-2I 3/28/2017	PW-2D 3/22/2017	PW-2D 3/27/2017	
Sample Date:																
Parameters	Units	New Jersey Higher of PQL and Ground Water Quality Criterion														
Volatiles																
1,1,1-Trichloroethane	µg/L	30	1.0 U	--	--	1.0 U	1.0 U	1.0 U	1.0 U							
1,1,2,2-Tetrachloroethane	µg/L	1	1.0 U	--	--	1.0 U	1.0 U	1.0 U	1.0 U							
1,1,2-Trichloroethane	µg/L	3	1.0 U	--	--	1.0 U	1.0 U	1.0 U	1.0 U							
1,1-Dichloroethane	µg/L	50	1.0 U	0.55 J	0.56 J	0.82 J	0.51 J	1.5 J	6.7	3.6	--	--	0.27 J	0.86 J	1.0 U	1.3
1,1-Dichloroethene	µg/L	1	1.0 U	0.97 J	1.0 U	0.48 J	1.0 U	1.0 U	1.0 U	0.41 J	--	--	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	9	1.0 U	0.56 J	0.41 J	0.27 J	0.28 J	1.0 U	1.0 U	--	--	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dichlorobenzene	µg/L	600	0.25 J	0.83 J	0.43 J	0.62 J	1.1	1.2 J	1.0 U	--	--	1.0 U	1.0 U	1.0 U	1.0 U	
1,2-Dichloroethane	µg/L	2	1.0 U	0.45 J	0.30 J	0.38 J	1.0 U	1.0 U	0.25 J	0.65 J	--	--	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	1	1.0 U	--	--	1.0 U	1.0 U	1.0 U	1.0 U							
1,3-Dichlorobenzene	µg/L	600	0.83 J	2.1	1.9	2.2	5.2	5.6 J	1.0 U	1.0 U	--	--	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	75	5.3	13	21	12	24	24 J	0.50 J	1.0 U	--	--	1.0 U	0.37 J	1.0 U	1.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	100 ⁽¹⁾	5.0 U	--	--	5.0 U	5.0 U	5.0 U	5.0 U							
Acetone	µg/L	6000	5.0 U	--	--	5.0 U	5.0 U	5.0 U	5.0 U							
Benzene	µg/L	1	3.5	41	1.9	16	30	13 J	6.2	24	--	--	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1	1.0 U	--	--	1.0 U	1.0 U	1.0 U	1.0 U							
Bromoform	µg/L	4	1.0 U	--	--	1.0 U	1.0 U	1.0 U	1.0 U							
Bromomethane (Methyl bromide)	µg/L	10	1.0 U	--	--	1.0 U	1.0 U	1.0 U	1.0 U							
Carbon tetrachloride	µg/L	1	1.0 U	--	--	1.0 U	1.0 U	1.0 U	1.0 U							
Chlorobenzene	µg/L	50	1.6	5.5	10	6.4	31	23 J	2.0	0.48 J	--	--	1.0 U	0.32 J	1.0 U	1.0 U
Chloroethane	µg/L	5 ⁽²⁾	1.5	4.2	62	89	13	20 J	1.0 U	1.0 U	--	--	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	70	1.0 U	--	--	1.0 U	1.0 U	1.0 U	1.0 U							
Chloromethane (Methyl chloride)	µg/L	100 ⁽¹⁾	1.0 U	--	--	1.0 U	1.0 U	1.0 U	1.0 U							
cis-1,2-Dichloroethene	µg/L	70	1.0 U	0.71 J	0.51 J	0.93 J	0.36 J	0.50 J	1.0	1.3	--	--	11	1.0 U	1.0 U	0.86 J
cis-1,3-Dichloropropene	µg/L	1	1.0 U	--	--	1.0 U	1.0 U	1.0 U	1.0 U							
Cyclohexane	µg/L	100 ⁽¹⁾	1.1	3.3	0.61 J	0.59 J	0.99 J	0.77 J	1.3	0.27 J	--	--	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	µg/L	1	1.0 U	--	--	1.0 U	1.0 U	1.0 U	1.0 U							
Dichlorodifluoromethane (CFC-12)	µg/L	1000	1.8	1.2	1.0 U	1.0 U	1.0 U	1.0 U	0.21 J	--	--	1.0 U	1.0 U	1.0 U	1.0 U	
Ethylbenzene	µg/L	700	1.0 U	1.0 U	2.7	1.0 U	1.0 U	1.0 U	1.0 U	--	--	1.0 U	1.0 U	1.0 U	1.0 U	
Hexane	µg/L	30	0.21 J	0.46 J	1.0 U	--	--	1.0 U	1.0 U	1.0 U	1.0 U					
Methylene chloride	µg/L	3	1.0 U	0.25 J	1.0 U	1.2	1.0 U	0.40 J	1.0 U	1.0 U	--	--	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1	1.0 U	0.15 J	1.0 U	--	--	0.58 J	1.0 U	0.49 J	1.0 U					
Toluene	µg/L	600	1.0 U	0.40 J	0.31 J	0.39 J	0.97 J	0.97 J	1.0 U	--	--	1.0 U	1.0 U	1.0 U	1.0 U	
trans-1,2-Dichloroethene	µg/L	100	0.35 J	1.0 U	0.29 J	1.0 U	1.2	2.1 J	0.42 J	1.0 U	--	--	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1	1.0 U	--	--	1.0 U	1.0 U	1.0 U	1.0 U							
Trichloroethene	µg/L	1	1.3	0.93 J	0.49 J	1.0 U	0.91 J	1.0 J	6.9	5.2	--	--	4.5	0.66 J	1.0 U	3.1
Vinyl chloride	µg/L	1	1.0 U	0.73 J	1.0 U	0.37 J	1.0 U	0.26 J	1.0 U	0.53 J	--	--	1.0 U	1.0 U	1.0 U	0.13 J
Xylenes (total)	µg/L	1000	2.0 U	--	--	2.0 U	2.0 U	2.0 U	2.0 U							
Total VOCs	µg/L	--	17.74	76.73	100.86	134.49	109.51	94.58	25.27	36.65	N/A	N/A	16.35	2.21	0.49	5.39
Metals																
Arsenic	µg/L	3	4.8	6.0	5.2	5.0	10.3	12.2	8.8	6.9	--	--	2.3 J	2.5 U	3.2	1.6 J
Iron	mg/L	0.3	15.2	13.6	7.2	13.5	7.2	7	4.4	10.5	1.8	2.6	2.6	--	0.6	--
Manganese	µg/L	50	393	711	4290	3410	1290	1440	405	338	--	--	64.9	772	40.6	397
Field Parameters																
Conductivity, field	µS/cm	--	748	885	2530	2240	1370	1550	920	788	1					

Table 2

Page 1 of 1

**Dissolved Oxygen Concentrations
JIS Landfill Site**

Well #	Mar. 2015 27th-31st	Oct. 2015 6th-10th	Apr. 2016 12th-25th	Oct. 2016 10th-30th	Mar. 2017 22nd-30th	Oct. 2017 10th-13th
MW-5	3.42	0.04	0.00	0.00	0.00	0.00
MP6S-R	6.72	0.00	0.00	0.00	0.00	2.47
MP6I-R	0.11	0.11	0.00	0.00	0.00	0.00
MP6D	18.30	19.90	18.93	16.00	11.79	17.33
MW42S	10.55		blocked		Blocked	
MW42I	10.48		>20		12.88	
MW42D	6.92		7.27		6.52	
MW43S	12.22	14.66	13.64	10.96	11.71	12.91
MW43I	10.10	11.77	17.32	12.61	10.98	15.84
MW43D	15.50	>20	>20	11.47	12.75	14.59
MW44S	8.88	7.05	7.64	8.13	5.77	3.45
MW44I	12.91	10.84	7.04	6.17	12.38	0.56
MW44D	8.64	>20	>20	>20	>20	3.13
MW45S	13.43		11.38		10.15	11.32
MW45I	14.81		18.77		10.12	12.93
MW45D	15.09		14.50		7.32	10.24
MW46S	0.71		0.00		0.57	
MW46I	9.18		1.50		1.90	
MW46D	>20		>20		12.92	
MW52S	7.43		1.76		8.08	
MW52I	14.67		2.89		5.93	
MW52D	4.63		0.00		3.91	
MW53SR		13.03	12.57	11.54	13.85	pump stuck
MW53IR		9.97	12.98	12.55	15.97	14.76
MW53DR		16.28	14.48	13.31	>20	14.94
MW54S	11.40		13.58		9.60	
MW54I	15.40		17.17		11.62	
MW54D	4.87		1.66		3.64	
MW55S	10.10		1.5		5.83	
MW55I	7.10		6.14		12.33	
MW55D	10.51		5.26		9.89	
MW47S	7.26		5.18		11.27	
MW47I	16.03		6.92		13.67	
MW47D	6.57		13.62		.18.00	
MW48S	9.64		8.3		7.82	
MW48I	11.97		7.07		13.79	
MW48D	9.98		5.74		6.57	
MW49S	1.76	0.00	0.00	0.00	4.80	0.30
MW49I	6.08	11.58	15.42	11.14	9.16	13.04
MW49D	6.97	>20	>20	16.33	11.15	7.49
MW50S	6.03	10.1	9.06	9.23	4.93	3.69
MW50I	13.20	3.25	4.99	6.17	5.19	3.15
MW50D	9.60	>20	>20	18.53	8.12	0.07
MW51S	8.65		11.17		7.95	
MW51I	20.30		>20		13.89	
MW51D	9.61		>20		11.32	
PW1I			19.00	9.04	>20	
PW1D			>20	9.61	>20	
PW2I			>20	13.72	17.36	
PW2D			16.29	19.25	>20	
MW68S		0.00	0.00	2.4	0.00	
MW68I		0.00	0.00	2.04	0	
MW68D		0.00	0.00	3.45	0.00	
MW69S		0.00	0.00	0.00	0.00	
MW69I		0.00	0.00	0.00	0.00	
MW69D		0.00	0.00	0.00	0.00	
MW70S		0.00	0.00	0.00	3.92	
MW70I		3.10	0.00	1.56	0.67	
MW70D		0.00	0.00	0.00	0.50	

Table 3

17 Shallow Groundwater Analytical Results – NJGWSL Comparison JIS Landfill Site

Sample Location: Sample Date:	MP-6SR 3/30/2017	MP-6SR 10/4/2017	MW-5 3/29/2017	MW-5 3/29/2017	MW-5 4/24/2017	MW-5 6/7/2017	MW-5 7/10/2017	MW-5 10/6/2017	MW-7S 3/22/2017	MW-43S 3/29/2017	MW-43S 10/5/2017	MW-44S 3/29/2017	MW-44S 10/5/2017	MW-45S 3/24/2017	MW-45S 10/3/2017	MW-46S 3/23/2017	MW-46S 3/27/2017		
Parameters	Units	NJDEP Generic Vapor Intrusion Groundwater Screening Levels																	
Volatiles																			
1,1,1-Trichloroethane	µg/L	13000	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
1,1,2,2-Tetrachloroethane	µg/L	6	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
1,1,2-Trichloroethane	µg/L	8	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
1,1-Dichloroethane	µg/L	50	0.59 J	0.52 J	1.0 U	1.0 U	2.0 U	100 U	1.0 U	0.49 J	1.0 U								
1,1-Dichloroethene	µg/L	260	1.0 U	2.8	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
1,2,4-Trichlorobenzene	µg/L	130	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U*	100 U	1.0 U	15	1.0 U								
1,2-Dichlorobenzene	µg/L	6800	1.5	3.8	9.9	9.8	14	12	34 J	14	7.7	1.0 U	1.0 U	1.3 J	1.0 U	2.3	1.0 U		
1,2-Dichloroethane	µg/L	3	0.30 J	0.34 J	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	1.1	2.0	1.7	1.0 U	1.0 U	1.0 U	1.0 U		
1,2-Dichloropropane	µg/L	4	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	2.4	1.3	1.0 U	0.28 J						
1,3-Dichlorobenzene	µg/L	--	6.3	3.1	11	11	15	12	100 U	15	6.2	1.0 U	0.36 J						
1,4-Dichlorobenzene	µg/L	75	75	26	17	17	23	19	64 J	31	50	1.0 U	1.0 U	1.1 J	1.0 U	2.1	1.0 U		
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	900000	5.0 U	5.0 U	5.0 U	5.0 U	10 U	500 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
Acetone	µg/L	21000000	5.0 U	5.0 U	5.0 U	5.0 U	11	500 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
Benzene	µg/L	20	120	100	1300	1300	4600 D	4200 D	24000	5300	2.5	1.0 U							
Bromodichloromethane	µg/L	2	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Bromoform	µg/L	300	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Bromomethane (Methyl bromide)	µg/L	20	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Carbon tetrachloride	µg/L	1	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Chlorobenzene	µg/L	770	11	15	670	670	890 D	980	1100	470	10	1.0 U							
Chloroethane	µg/L	26000	6.5	6.6	11	11	11	10	100 U	23	1.0 U								
Chloroform (Trichloromethane)	µg/L	70	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Chloromethane (Methyl chloride)	µg/L	240	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
cis-1,2-Dichloroethene	µg/L	--	39	10	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.70 J		
cis-1,3-Dichloropropene	µg/L	7*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Cyclohexane	µg/L	16000	4.3	4.4	42	42	41	25	53 J	48	0.98 J	1.0 U							
Dibromochloromethane	µg/L	6	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Dichlorodifluoromethane (CFC-12)	µg/L	1000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U*	100 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Ethylbenzene	µg/L	700	1.0 U	1.0 U	15	14	14	14	130	11	1.0 U								
Hexane	µg/L	160	1.3	0.98 J	1.0	0.97 J	0.68 J	2.0 U	100 U	3.2	1.0 U								
Methylene chloride	µg/L	920	1.0 U	0.40 J	1.1 U	1.0 U	1.0 U	2.0 U	100 U	0.70 J	1.0 U								
Tetrachloroethene	µg/L	31	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	1.0 U	1.0 U	0.21 J	1.0 U	1.0 U	0.52 J	1.0 U	0.21 J		
Toluene	µg/L	330000	1.6	1.3	2.2	2.2	6.6	6.1	35 J	7.4	0.29 J	1.0 U							
trans-1,2-Dichloroethene	µg/L	520	2.8	1.0 U	1.0 U	1.0 U	0.24 J	2.0 U	100 U	1.0 U	0.19 J	0.19 J	1.0 U						
trans-1,3-Dichloropropene	µg/L	7*	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Trichloroethene	µg/L	2	2.4	1.1	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	1.0 U	0.45 J	0.70 J	1.0 U	1.0 U	1.0 U	12		
Vinyl chloride	µg/L	1	5.2	1.1	1.0 U	1.0 U	1.0 U	2.0 U	100 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Xylenes (total)	µg/L	8600	0.56 J	0.38 J	200	200	110	65	1600	150	2.0 U								
Total VOCs	µg/L	--	278.35	177.82	2279.1	2277.97	5725.52	5354.1	27016	6073.3	96.85	3.94	3.91	0	2.4	0.52	44.76	0.21	1.46
Metals																			
Arsenic	µg/L	--	7.3	6.9	11.6	11.0	14.1	11.0	18.4	16.5	2.5 U	2.5 U	2.5 U	2.5 U	1.8 J	2.5 U	2.5 U	2.5 U	
Iron	mg/L	--	7	16	50	--	--	--	--	140	5	0.8	1.5	6.2	0.5	0.8	1	2.2	
Manganese	µg/L	--	648	560	387	374	384	365	265	318	1490	10.9	15.5	11.8	9.1 J	44.4	10.0 U	14.4	30.1
Field Parameters																			
Conductivity, field	µS/cm	--	1320	1030	1.73	--	--	--	1700	1530	3250	3180	1540	1450	1270	929	807	1020	
Dissolved oxygen (DO), field	mg/L	--	0	2.47	0	--	--	--	0	6.05	11.71	12.91	5.77	3.45	10.15	11.32	0.57	11.27	
Ferrous iron, field	mg/L	--	3.8	3.6	8	--	--	--	13	2.5	0	0	0	0	0	0	0	0	
Oxidation reduction potential (ORP), field	millivolts	--	-67	12	-98	--	--	--	-103	-12	165	188	78	146	148	192	83	236	
pH, field	s.u.	--	6.42	6.83	6.16	--	--	--	6.98	5.59	7.83	7.69	6.22	7.85	7.28	8.01	7.45	5.92	
Temperature, field	Deg C	--	13.6	14.8	15.4	--	--	--	17.3	12.7	14.2	17.8	13	18.3	13.6	14.9	11.9	13.5	
Turbidity, field	NTU	--	56	24	4	--	--	--	5	59	24	55	0	23	70	21	16	28	

Notes:

D - Sample results are obtained from a dilution;

the surrogate or matrix spike recoveries reported are calculated from diluted samples.

F1 - MS and/or MSD Recovery is outside acceptance limits.

J - Estimated concentration.

U - Not detected at the associated reporting limit.

Criteria Notes:

* - Criteria value f

Table 3

7 Shallow Groundwater Analytical Results – NJGWSL Comparison JIS Landfill Site

Sample Location: Sample Date:	MW-48S 3/28/2017	MW-49S 3/28/2017	MW-49S 10/5/2017	MW-50S 3/30/2017	MW-50S 10/5/2017	MW-51S 3/24/2017	MW-52S 3/22/2017	MW-53S 3/27/2017	MW-54S 3/23/2017	MW-55S 3/22/2017	MW-63S 4/3/2017	MW-68S 3/30/2017	MW-68S 10/4/2017	MW-69S 3/28/2017	MW-69S 10/6/2017	MW-70S 3/28/2017	MW-70S 10/3/2017	
Parameters	Units																	
Volatiles																		
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U									
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U									
1,1,2-Trichloroethane	µg/L	0.13 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U								
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	0.67 J	0.26 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.69 J	0.41 J	0.91 J	0.58 J	
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.5	1.0 U	2.6	1.0 U									
1,2,4-Trichlorobenzene	µg/L	1.0 U	2.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.29 J								
1,2-Dichlorobenzene	µg/L	1.0 U	0.50 J	0.57 J	1.0 U	2.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.3	2.9	
1,2-Dichloroethane	µg/L	0.27 J	0.35 J	0.28 J	1.0 U	1.0 U	1.0 U	1.0 U	0.25 J	0.84 J	0.41 J	0.30 J						
1,2-Dichloropropane	µg/L	0.72 J	0.34 J	0.24 J	1.0 U	1.0 U	1.0 U	0.29 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.23 J	0.75 J	1.0 U	1.0 U	
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.48 J	1.0 U	1.0 U	1.1	1.0 U	1.0 U	1.0 U	1.0 U	0.58 J	0.71 J	8.4	12	
1,4-Dichlorobenzene	µg/L	1.0 U	2.9	2.6	1.0 U	1.9	1.0 U	1.0 U	4.9	1.0 U	1.0 U	1.0 U	1.0 U	1.5	2.1	66	110	
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U									
Acetone	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U									
Benzene	µg/L	1.0 U	1.2	1.1	1.0 U	1.0 U	1.0 U	1.0 U	0.17 J	1.0 U	1.0 U	1.0 U	1.0 U	400	140	480	87	
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U									
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U									
Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U									
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U									
Chlorobenzene	µg/L	1.0 U	1.0 U	0.46 J	1.0 U	1.0 U	1.0 U	1.0 U	4.4	8.0	23	19						
Chloroethane	µg/L	1.0 U	2.3	1.0 U	1.0 U	1.0 U	1.0 U	2.5	8.1	16	10							
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U									
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U									
cis-1,2-Dichloroethene	µg/L	1.0 U	1.2	0.73 J	1.0 U	1.0 U	1.0 U	1.0 U	73	8.4	15	1.7						
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U									
Cyclohexane	µg/L	1.0 U	1.0 U	0.30 J	1.0 U	1.0 U	1.0 U	1.0 U	1.2	2.7	11	6.0						
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U									
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U									
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.46 J	1.0 U	1.1	1.0 U									
Hexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.34 J	0.41 J	1.5	1.3									
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.49 J	1.0 U	0.43 J	1.0 U									
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U									
Toluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	2.5	0.58 J	2.4	1.1									
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.7	1.0 U	2.9	1.0 U									
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U									
Trichloroethene	µg/L	1.0 U	0.51 J	0.44 J	1.0 U	0.27 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.1	1.0 U	20	5.1	
Vinyl chloride	µg/L	1.0 U	0.35 J	0.21 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.49 J	0.60 J						
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U									
Total VOCs	µg/L	1.12	7.35	6.93	0.67	5.01	0	0.29	11.57	0.53	44.46	0.3	531.87	182.98	641.39	257.49	100.86	134.49
Metals																		
Arsenic	µg/L	3.7	3.7	2.9	2.5 U	2.4 J	2.5 U	2.5 U	4.0	2.5 U	2.5 U	--	4.3	4.4	11.9	12.2	5.2	5.0
Iron	mg/L	7.8	5.5	6.8	1	1.5	0.6	0	6.6	0.4	0	--	10.6	7.4	6	15.9	7.2	13.5
Manganese	µg/L	795	197	166	31.4	88.5	145	286	10.0 U	314	--	1030	947	728	871	4290	3410	
Field Parameters																		
Conductivity, field	µS/cm	1150	2080	1980	1090	957	1130	844	910	1140	521	--	1610	1550	1810	1590	2530	--
Dissolved oxygen (DO), field	mg/L	7.82	4.8	0.3	4.93	3.69	7.95	8.08	13.85	9.6	5.83	--	2.4	0	0	0	3.92	
Ferrous iron, field	mg/L	0	2.8	2.5	0	0	0	0	2.8	0	0	--	3.8	2.8	4.4	5.2	5.8	6.6
Oxidation reduction potential (ORP), field	millivolts	221	-84	-49	149	159	224	294	53	135	321	--	-51	-48	-119	-87	-70	-22
pH, field	s.u.	6.37	6.83	6.81	7.07	7.28	6.11	5.27	5.48	7.16	5	--	6.51	6.89	6.28	6.86	6.12	6.09
Temperature, field	Deg C	13	14	16.4	13.8	15.6	12.4	10.6	15.1	12.8	11.8	--	13	19.6	13.7	16.6	14.1	16.8
Turbidity, field	NTU	1000 >	6	28	12	33	22	17	999 >	40	5	--	55	116	335	800	220	160

Notes:

D - Sample results are obtained from a dilution;

the surrogate or matrix spike recoveries reported are calculated from di

F1 - MS and/or MSD Recovery is outside acceptance limits.

J - Estimated concentration.

U - Not detected at the associated reporting limit.

-- Not applicable.

Criteria Notes:

* - Criteria value for 1,3

-- Not applicable.

Not applicable.

Table 4

Page 1 of 1

Vadose Zone Field Sampling Results
JIS Landfill Site

Well #	13-Oct-16					20-Apr-17					15-Nov-17				
	PID in Well (ppm)	PID @ Ground level	O2 (%)	CO2 (%)	CH4 (%)	PID in Well (ppm)	PID @ Ground level	O2 (%)	CO2 (%)	CH4 (%)	PID in Well (ppm)	PID @ Ground level	O2 (%)	CO2 (%)	CH4 (%)
MW55V	0.00	0.00	19.80	2.70	0.00	0.00	0.00	19.70	2.30	0.00	0.00	0.00	19.40	2.50	0.00
MW42V	0.00	0.00	19.40	1.10	0.00	0.00	0.00	19.50	0.60	0.00	0.00	0.00	19.40	1.00	0.00
MW43V	0.00	0.00	19.60	0.80	0.00	0.00	0.00	19.90	0.80	0.00	0.00	0.00	19.70	1.10	0.00
MW44V	0.00	0.00	16.00	5.30	0.00	0.00	0.00	16.80	4.70	0.00	0.00	0.00	17.30	3.90	0.00
MW45V	0.00	0.00	19.30	2.80	0.00	0.00	0.00	18.70	2.10	0.00	0.00	0.00	18.90	1.90	0.00
MW46V	0.00	0.00	20.20	1.30	0.00	0.00	0.00	19.90	1.20	0.00	0.00	0.00	20.10	1.10	0.00
MW49V	0.00	0.00	20.00	0.50	0.10	0.00	0.00	19.90	0.90	0.10	0.00	0.00	19.80	1.00	0.00
MW50V	0.00	0.00	19.10	1.90	0.00	0.00	0.00	19.20	1.90	0.00	0.00	0.00	19.30	2.00	0.00
MW65V	0.00	0.00	18.80	2.70	0.00	0.00	0.00	18.80	1.90	0.00	0.00	0.00	19.70	2.00	0.00
MW66V			Buried					Buried					Buried		
MW67V	0.00	0.00	19.90	2.70	0.00	0.00	0.00	20.00	2.30	0.00	0.00	0.00	20.10	2.10	0.00

Table 5

**2017 Indoor / Outdoor / Vadose Zone Air Analytical Results
JIS Landfill Site**

Sample Location: Sample Date:	JIS Office 3/31/2017	MW-42V 5/4/2017	MW-43V 5/4/2017	MW-44V 5/4/2017	MW-45V 5/4/2017	MW-46V 5/4/2017	MW-49V 5/4/2017	MW-50V 5/4/2017	MW-55V 5/4/2017	MW-65V 5/4/2017	MW-67V 5/4/2017	Outside Ambient 3/31/2017	
Parameters	Units	NJ Non-Residential Indoor Air Screening Level											
Volatiles													
1,1,1-Trichloroethane	µg/m³	22000	1 U	11 U	11 U	5 J	11 U	1 U					
1,1,2,2-Tetrachloroethane	µg/m³	3	0.3 J	14 U	36	14 U	14 U	14 U	67	14 U	14 U	14 U	1 U
1,1,2-Trichloroethane	µg/m³	3	1 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	1 U
1,1-Dichloroethane	µg/m³	8	0.8 U	8 U	16	8 U	7 J	8 U	8 U	8 U	8 U	8 U	0.8 U
1,1-Dichloroethene	µg/m³	880	0.8 U	8 U	8 U	8 U	8 U	8 U	8 U	8 U	8 U	8 U	0.8 U
1,2,4-Trichlorobenzene	µg/m³	9	4 U	37 U	37 U	37 U	37 U	37 U	37 U	37 U	37 U	37 U	4 U
1,2,4-Trimethylbenzene	µg/m³	--	1 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U
1,2-Dibromoethane (Ethylene dibromide)	µg/m³	4	2 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	2 U
1,2-Dichlorobenzene	µg/m³	880	1 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	1 U
1,2-Dichloroethane	µg/m³	2	0.8 U	8 U	3 J	8 U	8 U	8 U	8 U	8 U	8 U	8 U	0.8 U
1,2-Dichloropropane	µg/m³	2	0.9 U	9 U	37	9 U	9 U	9 U	9 U	9 U	9 U	9 U	0.9 U
1,2-Dichlortetrafluoroethane (CFC 114)	µg/m³	--	1 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	1 U
1,3,5-Trimethylbenzene	µg/m³	--	1 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U
1,3-Butadiene	µg/m³	1	0.4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	0.4 U
1,3-Dichlorobenzene	µg/m³	--	1 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	1 U
1,4-Dichlorobenzene	µg/m³	3	1 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	1 U
1,4-Dioxane	µg/m³	--	18 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	18 U
2,2,4-Trimethylpentane	µg/m³	--	0.9 U	9 U	9 U	9 U	9 U	9 U	9 U	9 U	9 U	9 U	0.9 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m³	22000	2	15 U	3								
2-Chlorotoluene	µg/m³	--	1 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U
4-Ethyl toluene	µg/m³	--	1 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m³	13000	2 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	2 U
Acetone	µg/m³	140000	7 J	120 U	17								
Allyl chloride	µg/m³	2	2 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	2 U
Benzene	µg/m³	2	0.4 J	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	0.4 J
Bromodichloromethane	µg/m³	3	1 U	13 U	13 U	5 J	13 U	1 U					
Bromoform	µg/m³	11	2 U	21 U	20 U	21 U	2 U						
Bromomethane (Methyl bromide)	µg/m³	22	0.8 U	8 U	8 U	8 U	8 U	8 U	8 U	8 U	8 U	8 U	0.8 U
Carbon disulfide	µg/m³	3100	2 U	16 U	15 U	16 U	2 U						
Carbon tetrachloride	µg/m³	3	0.5 J	13 U	12 U	13 U	0.5 J						
Chlorobenzene	µg/m³	220	0.9 U	9 U	9 U	9 U	9 U	9 U	9 U	9 U	9 U	9 U	0.9 U
Chloroethane	µg/m³	44000	1 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	1 U
Chloroform (Trichloromethane)	µg/m³	2	0.8 J	10 U	2 J	45	10 U	10 U	58	10 U	10 U	2 J	1 U
Chloromethane (Methyl chloride)	µg/m³	390	1	10 U	1								
cis-1,2-Dichloroethene	µg/m³	--	0.8 U	8 U	8 U	65	8 U	6 J	8 U	5 J	8 U	10	0.8 U
cis-1,3-Dichloropropene	µg/m³	3*	0.9 U	9 U	9 U	9 U	9 U	9 U	9 U	9 U	9 U	9 U	0.9 U
Cyclohexane	µg/m³	26000	43	7 U	7 U	7 U	7 U	7 U	7 U	7 U	7 U	7 U	1
Dibromochloromethane	µg/m³	4	2 U	17 U	17 U	17 U	17 U	17 U	17 U	17 U	17 U	17 U	2 U
Dichlorodifluoromethane (CFC-12)	µg/m³	440	3	25 U	3 J	25 U	82	89	2 J	6 J	3 J	90	3
Ethanol	µg/m³	--	4 J	94 U	93 U	94 U	27						
Ethylbenzene	µg/m³	5	0.9 U	9 U	9 U	9 U	9 U	9 U	9 U	9 U	9 U	9 U	0.9 U

Table 5

2017 Indoor / Outdoor / Vadose Zone Air Analytical Results
JIS Landfill Site

Sample Location: Sample Date:		JIS Office 3/31/2017	MW-42V 5/4/2017	MW-43V 5/4/2017	MW-44V 5/4/2017	MW-45V 5/4/2017	MW-46V 5/4/2017	MW-49V 5/4/2017	MW-50V 5/4/2017	MW-55V 5/4/2017	MW-65V 5/4/2017	MW-67V 5/4/2017	Outside Ambient 3/31/2017
Parameters	Units	NJ Non-Residential Indoor Air Screening Level											
Hexachlorobutadiene	µg/m³	5	2 U	21 U	21 U	21 U	21 U	21 U	21 U	21 U	21 U	21 U	2 U
Hexane	µg/m³	3100	0.3 J	7 U	7 U	7 U	7 U	7 U	7 U	7 U	7 U	7 U	1
Isopropyl alcohol	µg/m³	--	12 U	120 U	120 U	120 U	3 J	120 U	6 J				
m&p-Xylenes	µg/m³	--	2 U	22 U	22 U	22 U	22 U	22 U	22 U	22 U	22 U	22 U	2 U
Methyl methacrylate	µg/m³	--	2 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	2 U
Methyl tert butyl ether (MTBE)	µg/m³	47	0.7 U	7 U	7 U	7 U	7 U	7 U	7 U	7 U	7 U	7 U	0.7 U
Methylene chloride	µg/m³	1200	1 J	17 U	3								
Naphthalene	µg/m³	3	3 U	26 U	26 U	26 U	26 U	26 U	26 U	26 U	26 U	26 U	3 U
N-Heptane	µg/m³	--	0.8 U	8 U	8 U	8 U	8 U	8 U	8 U	8 U	8 U	8 U	0.8 U
o-Xylene	µg/m³	--	0.9 U	9 U	9 U	9 U	9 U	9 U	9 U	9 U	9 U	9 U	0.9 U
Styrene	µg/m³	4400	0.9 U	9 U	8 U	9 U	9 U	9 U	9 U	9 U	9 U	9 U	0.9 U
tert-Butyl alcohol	µg/m³	--	15 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	15 U
Tetrachloroethene	µg/m³	47	5	4 J	14	5 J	15	26	23	14 U	21	13 J	42
Tetrahydrofuran	µg/m³	--	15 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	15 U
Toluene	µg/m³	22000	0.5 J	8 U	7 U	8 U	8 U	8 U	8 U	8 U	8 U	8 U	1
trans-1,2-Dichloroethene	µg/m³	260	0.8 U	8 U	8 U	8 U	8 U	8 U	9	8 U	8 U	8 U	0.8 U
trans-1,3-Dichloropropene	µg/m³	3*	0.9 U	9 U	9 U	9 U	9 U	9 U	9 U	9 U	9 U	9 U	0.9 U
Trichloroethene	µg/m³	3	0.4 J	11 U	110	28	1900	440	230	3 J	10 J	210	16
Trichlorofluoromethane (CFC-11)	µg/m³	3100	1	11 U	11 U	23	40	11 U	11 U	5 J	11 U	54	11 U
Trifluorotrichloroethane (CFC-113)	µg/m³	130000	0.7 J	15 U	15 U	4 J	15 U	0.6 J					
Vinyl bromide (Bromoethene)	µg/m³	2	0.9 U	9 U	9 U	9 U	9 U	9 U	9 U	9 U	9 U	9 U	0.9 U
Vinyl chloride	µg/m³	3	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.5 U

Notes:

U - Not detected at the associated reporting limit.

J - Estimated concentration.

UJ - Not detected; associated reporting limit is estimated.

Criteria Notes:

* - Criteria value for 1,3-Dichloropropene used for comparison.

- Not applicable.

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